REF: 03-RF-00414; JLB-017-03

CLOSEOUT REPORT FOR IHSS GROUPS 100-4 (UBC 123, IHSS 148, PAC 100-611) AND 100-5 (PAC 100-609)

Approval received from the Colorado Department of Public Health and Environment

Approval letter contained in the Administrative Record



ADMIN RECORD— IA-A-001309



TABLE OF CONTENTS

EXECUTIVE SUMMARY	vi
1.0 INTRODUCTION	1
2.0 IHSS GROUP 100-4 ACTIVITIES	3
2.1 Site Characterization	
2.1.1 UBC 123, Radiological Health Physics Laboratory	3
2.1.2 IHSS 100-148-Waste Leaks	6
2.1.3 PAC 100-603-Bioassay Waste Spill	7
2.1.4 PAC 100-611-Building 123 Scrubber Solution Spill	
2.1.5 Analytical Data – UBC 123 and IHSS 148	
2.1.6 Analytical Data-PAC 100-611-Building 123 Scrubber Solution Spill	
2.2 Accelerated Action Description	
2.2.1 Area of Concern	8
2.2.2 Removal Activities	15
2.3 Confirmation Sampling	21
2.4 RCRA Unit Closure	
2.5 Deviations from the ER RSOP	32
2.6 Waste Management	
2.7 Site Reclamation	
2.8 Accelerated Action Goals	
2.9 No Longer Representative Sampling Locations	
3.0 POST-REMEDIATION CONDITIONS	
3.1.1 UBC 123, Radiological Health Physics Laboratory	
3.1.2 IHSS 100-148, Waste Leaks	
3.1.3 PAC 100-603, Bioassay Waste Spill	
3.1.4 PAC 100-611, Building 123 Scrubber Solution Spill	
3.1.5 Residual Contamination	
4.0 STEWARDSHIP EVALUALTION	
4.1 Current Site Conditions	
4.2 Near Term Management Recommendations	
4.3 Long-Term Stewardship Recommendations	
4.4 Accelerated Action Stewardship	
5.0 DATA QUALITY ASSESSMENT	
5.1 DQO Decisions	
5.2 Verification and Validation of Results	
5.3 Data Quality Summary	
6.1 Site Characterization	
6.2 Accelerated Action Description 6.2.1 Area of Concern	
6.2.2 Removal Activities	
6.3 Deviations from the ER RSOP	
6.4 Waste Management	
6.5 Site Reclamation	
7.0 POST-REMEDIATION CONDITIONS	
8.0 STEWARDSHIP EVALUATION	
8.1 Current Site Conditions	
0.1 Current Site Conditions	

8.2 No	ear Term Management Recommendations	66
	ong-Term Stewardship Recommendation	
8.3.1	Accelerated Action Stewardship	
	ΓA QUALITY ASSESSMENT	
9.1.1	DQO Decisions	
9.1.2	Verification and Validation of Results	
9.1.3		
	ERENCES	
2010 212-		
	LIST OF FIGURES	
Figure 1	Location Map-IHSS Group 100-4	
Figure 2	IHSS Group 100-4	5
Figure 3	Location of Pre-Accelerated Action Sample Results Above Detection Limits or	
	Background Levels for IA Group 100-4	9
Figure 4	Location of Pre-Accelerated Action Sample Results Above Detection Limits or	
	Background Levels Collected at UBC 123 (IHSS Group 100-4) in November 2000	
Figure 5	Characterization Sampling Locations and Results at PAC 100-611	
Figure 6	IHSS Group 100-4-Area of Concern	14
Figure 7	IHSS Group 100-4 Process Waste Lines	
Figure 8	Location of Soil Stockpiles	19
Figure 9	Planned Confirmation Sampling Locations	
Figure 10	Actual Confirmation Sampling Locations	22
Figure 11	Confirmation Sampling Results Greater Than Background Plus Two Standard	
	Deviations or Method Detection Limits	
Figure 12	RFCA Tier II Radionuclide Sum of Ratios	
Figure 13	RFCA Tier II Nonradionuclide Sum of Ratios	•
Figure 14	UBC 123 RCRA Unit 40	
Figure 15	RCRA Unit 40 Pipeline Removed and Left in Place	
Figure 16	No Longer Representative Sampling Locations at IHSS Group 100-4	
Figure 17	Residual Contamination at IHSS Group 100-4	
Figure 18	NPWL and OPWL Pipelines Left in Place	
Figure 19	IHSS Group 100-5 Area of Concern	
Figure 20	Sampling Results Greater Than Method Detection Limits at IHSS Group 100-5	
Figure 21	RFCA Tier II Nonradionuclide Sum of Ratios for IHSS Group 100-5	63

LIST OF TABLES

Table 1	PAC 100-611-Characterization Sampling Specifications	11
Table 2	PAC 100-611-Characterization Data	13
Table 3	Dates of Accelerated Action Activities	15
Table 4	Process Waste Line Summary	21
Table 5	IHSS Group 100-4-Confirmation Sampling Specifications	23
Table 6	Confirmation Sampling Results Greater Than Background Plus Two Standard	
	Deviations or Method Detection Limits	26
Table 7	RFCA Tier II Sum of Ratios	30
Table 8	Planned Versus Actual Sampling Locations	
Table 9	Waste Characterization Summary	35
Table 10	Waste Characterization Data Summary-Detected Analytes	39
Table 11	No Longer Representative Sampling Locations	40
Table 12	Residual Contamination at IHSS Group 100-4	43
Table 13	Residual Contamination Location Information	
Table 14	IHSS Group 100-4-Sample Completeness Summary	55
Table 15	IHSS Group 100-4 – Verification & Validation for Electronic Data Deliverable	
	Records	56
Table 16	IHSS Group 100-4 Analytes with Detection Limits Exceeding Tier I Action Level	
Table 17	IHSS Group 100-4 Analytes with Detection Limits Exceeding Tier II Action Level	els 57
Table 18	IHSS Group 100-5, PAC 100-609-Characterization Sampling Specifications	59
Table 19	IHSS Group 100-5, PAC 100-609-Characterization Data Summary	60
Table 20	IHSS Group 100-5-Toxicity Equivalent Comparison	64
Table 21	Summed TEQs by Sample Location	64
Table 22	Dates and Duration of Accelerated Action Activities	65
Table 23	IHSS Group 100-5-Sampling	68
Table 24	IHSS Group 100-5-Sample Completeness Summary	70
Table 25	IHSS Group 100-5-Summary of Validated Records	

LIST OF APPENDICES

	Annendix	Δ	Project	Photogram	hc
--	----------	---	---------	-----------	----

Appendix B – Analytical Data

Appendix C – Correspondence

Appendix D – IHSS Group 100-4 Proposed RFCA Action Levels

Appendix E – IHSS Group 100-5 Proposed RFCA Action Levels

ACRONYMS

ACM asbestos containing material

AL action level AOC Area of Concern

AR Administrative Record CAB cost advantage box

CAD/ROD Corrective Action Decision/Record of Decision

CEARP Comprehensive Environmental Assessment and Response Program

CDPHE Colorado Department of Public Health and Environment

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

COC contaminant of concern
CMS Corrective Measure Study

CPIR Contingency Plan Implementation Report

CRA Comprehensive Risk Assessment
D&D Deactivation and Decommissioning

DL detection limit

DOE U.S. Department of Energy
DQA Data Quality Assessment
DQO Data Quality Objective
EDD electronic data deliverable

EPA U.S. Environmental Protection Agency

ER Environmental Restoration

ER RSOP Environmental Restoration RFCA Standard Operating Protocol

FS Feasibility Study

GPS Global Positioning System
HDD Horizontal Directional Drilling

HPGe High Purity Germanium HRR Historical Release Report

IA Industrial Area

IASAP Industrial Area Sampling and Analysis Plan

IHSS Individual Hazardous Substance Site

K-H Kaiser-Hill Company L.L.C.

lbs pounds

LCS laboratory control sample
LD laboratory duplicate
LLMW low-level mixed waste

LLW low-level waste

MDA minimum detectable activity
MDL method detection limit
mg/kg milligrams per kilogram

MH manhole MS matrix spike

MSD matrix spike duplicate

NA not applicable NCR no carbon required

ND not detected

NFA No Further Action

NLR No Longer Representative NPWL New Process Waste Lines

NTS Nevada Test Site

OPWL Original Process Waste Lines

OU Operable Unit

PAC Potential Area of Concern
PAM Proposed Action Memorandum

PARCCS precision, accuracy, representativeness, completeness, comparability, and

sensitivity

PCB polychlorinated biphenyl pCi/g picocuries per gram

PCOC potential contaminant of concern

pg/g picograms per gram
ppb parts per billion
ppt parts per trillion
QC Quality Control

RAO Remedial Action Objective

RCRA Resource Conservation and Recovery Act

RFI RCRA Facility Investigation
RFCA Rocky Flats Cleanup Agreement

RFETS Rocky Flats Environmental Technology Site

RI Remedial Investigation

RISS Remediation, Industrial D&D, & Site Services

RL Recoverable Limit

RMRS Rocky Mountain Remediation Services

RPD relative percent difference required quantitation limit

RSOP RFCA Standard Operating Protocol

SAP Sampling and Analysis Plan

Site Rocky Flats Environmental Technology Site

SOP standard operating procedure

SOR Sum of Ratio SU Standard Unit

SVOC semivolatile organic compound

TCLP Toxicity Characteristic Leaching Procedure

TEF toxicity equivalent factor TEQ toxicity equivalents

UBC Under Building Contamination

μg/kg micrograms per kilogram μg/L micrograms per liter

VOC volatile organic compound V&V verification and validation WRW Wildlife Refuge Worker

EXECUTIVE SUMMARY

This closeout report summarizes accelerated action activities conducted at Individual Hazardous Substance Site (IHSS) Groups 100-4 and 100-5, which is located at the Rocky Flats Environmental Technology Site. Activities were planned and executed in accordance with the Industrial Area (IA) Sampling and Analysis Plan, the IASAP Addendum #IA-02-01, and the Environmental Restoration (ER) Rocky Flats Cleanup Agreement (RFCA) Standard Operating Protocol for Routine Soil Remediation (ER RSOP). Notification of the planned characterization and removal activities was provided in ER RSOP Notification #02-01.

IHSS Group 100-4 includes Under Building Contamination Site (UBC) 123 (Radiological Health Physics Laboratory), IHSS 100-48 (Waste Leaks), Potential Area of Concern (PAC) 100-603 (Bioassay Waste Spill), and PAC 100-611 (Building 123 Scrubber Solution Spill). The Area of Concern (AOC) and associated remedial action objectives were determined based on data collected during the characterization of UBC 123 and data collected during previous studies of the area. Accelerated action activities were conducted from February 5, 2002 through April 19, 2002. During this time, the Building 123 slab was removed, as were belowgrade features, including the building footers, source pits, manholes, sumps, and process waste lines regulated under the Resource Conservation and Recover Act (RCRA). In addition, soils contaminated with lead and semi-volatile organic compounds (SVOCs) were removed and confirmation samples were collected verify cleanup levels. Confirmation sampling results indicated that all contaminant concentrations were less than RFCA Tier I Action Levels (ALs) and proposed Wildlife Refuge Worker (WRW) and ecological ALs. The data were verified and validated in accordance with the Data Quality Objective/Data Quality Assessment (DQO/DQA), as described in the IASAP. Waste from IHSS Group 100-4 included concrete, pipeline, asphalt, and soil. Clean concrete was segregated and recycled in accordance with the RSOP for Recycling Concrete. Other wastes were managed in accordance with the ER Waste Management Plan. Excavated areas were backfilled and the entire area was rough-graded before topsoil was distributed and the area was seeded with Canada Bluegrass.

IHSS Group 100-4 removal activities were consistent with and contributed to the ER RSOP overall long-term remedial action objectives for RFETS soil. The removal of concrete items, including sumps and tanks, and portions of the OPWL and NPWL, and the disruption of remaining lines contributed to the protection of human health and the environment, because potential sources of contamination were removed or isolated. These actions also minimized the need for long-term maintenance and institutional or engineering controls because potential sources of contamination were removed or isolated. In addition, best management practices were used during the accelerated action to prevent the spread of contamination during the accelerated action (e.g., erosion and duct controls). Air monitoring data during the accelerated action did not indicate any exceedances.

Even though some process waste lines remain, no Group-specific, near-term management techniques are required. Remaining lines have been isolated (grouted). Excavation at the site will continue to be controlled through the Site Soil Disturbance Permit process. Fencing and signs restricting access will be posted to minimize disturbance to newly-revegetated areas. Site access and security controls and the Soil Disturbance Permit process will remain in place pending implementation of long-term controls.

IHSS Group 100-5 consists of PAC 100-609 (Building 121 Security Incinerator). The AOC and associated remedial action objectives were determined based on sampling performed in accordance with the IASAP. Accelerated action activities were conducted on March 6, 2002. At that time, the Building 121 slabs were removed and managed in accordance with the RSOP for Recycling Concrete. No soil was removed because analytical results indicated that dioxin and furan congener concentrations were below the EPA cleanup guidelines and PCBs were less than RFCA Tier II ALs. PCBs concentrations were also less than proposed WRW ALs. There are no proposed WRW ALs for dioxin and furan congeners. The data were verified and validated in accordance with the DQO/DQA, as described in the IASAP.

IHSS Group 100-5 removal activities were consistent with and contributed to the ER RSOP overall long-term remedial action objectives for RFETS soil. The removal of the concrete slab contributed to the protection of human health and the environment, because potential sources of contamination were removed or isolated. These actions also minimized the need for long-term maintenance and institutional or engineering controls because potential sources of contamination were removed or isolated. In addition, best management practices were used during the accelerated action to prevent the spread of contamination during the accelerated action (e.g., erosion and duct controls). Air monitoring data during the accelerated action did not indicate any exceedances.

No Group-specific, near-term management techniques are required. Excavation at the site will continue to be controlled through the Site Soil Disturbance Permit process. Fencing and signs restricting access will be posted to minimize disturbance to newly-revegetated areas. Site access and security controls and the Soil Disturbance Permit process will remain in place pending implementation of long-term controls.

The presence of residual contamination in soil will be analyzed in the Site Wide Comprehensive Risk Assessment, which is part of the RCRA Facility Investigation/Remedial Investigation (RFI/RI) and Corrective Measures Study/Feasibility Study (CMS/FS) that will be conducted for the Site. The need for and extent of any, more general, long-term stewardship activities will also be analyzed in the RFI/RI and CMS/FS and will be proposed as part of the preferred alternative in the Proposed Plan for the Site. Institutional controls and other long-term stewardship requirements for Rocky Flats will ultimately be contained in the Corrective Action Decision/Record of Decision, in any post-closure Colorado Hazardous Waste Act permit that may be required, and in any post-RFCA agreement.

No long-term stewardship activities are recommended for IHSS Groups 100-4 or 100-5 beyond the generally applicable Site requirements that may be imposed on this area in the future, which are dependent upon the final remedy selected. Institutional controls that will be used as appropriate for this area include prohibitions on construction of buildings in the IA, restrictions on excavation or other soil disturbance, or prohibitions on groundwater pumping in the area of IHSS Groups 100-4 and 100-5. No specific engineered controls or environmental monitoring are anticipated as a result of the conditions remaining in IHSS Groups 100-4 and 100-5.

This closeout report and associated documentation will be retained as part of the Rocky Flats administrative record file. These specific long-term stewardship recommendations will also be summarized in the Rocky Flats *Long-Term Stewardship Strategy*.

1.0 INTRODUCTION

This closeout report summarizes characterization and accelerated action activities conducted at Individual Hazardous Substance Site (IHSS) Group 100-4 (UBC 123, IHSS 148, PAC 100-611 and IHSS Group 100-5 (PAC 100-609) at the Rocky Flats Environmental Technology Site (RFETS or Site) in Golden, Colorado. Accelerated action activities were planned and executed in accordance with the Industrial Area (IA) Sampling and Analysis Plan (SAP) (DOE 2001a), IASAP Addendum #IA-02-01 (DOE 2001b), and the Environmental Restoration (ER) Rocky Flats Cleanup Agreement (RFCA) Standard Operating Protocol (RSOP) for Routine Soil Remediation (ER RSOP) (DOE 2002a). Notification of the planned activities was provided in ER RSOP Notification #02-01 (DOE 2002b), which was approved by the Colorado Department of Public Health and Environment (CDPHE) on January 16, 2002 (CDPHE 2002).

Approval of this Closeout Report constitutes regulatory agency concurrence that these IHSS Groups are No Further Actions (NFAs). This information and NFA determination will be documented in the FY03 Historical Release Report (HRR).

This report contains the information necessary to demonstrate attainment of cleanup objectives and final closure of IHSS Groups 100-4 and 100-5. This information includes:

- Site Characterization Information
 - Description of site characterization activities, and
 - Site characterization data, including data tables and maps;
- Site Accelerated Action Information
 - Description of the accelerated action, including the rationale for the action and map of the target remediation area,
 - Map of the actual remediation area, including bounds of the excavation, and dates and durations of specific remedial activities,
 - Photographs documenting site characterization, remediation, and reclamation activities;
- Confirmation sampling data, including data tables and location maps, as well as a comparison of the confirmation data to applicable cleanup goals;
- Description of Resource Conservation and Recovery Act (RCRA) unit closure activities;
- Description of deviations from the ER RSOP;
- Description of near-term stewardship actions and long-term stewardship recommendations;
- Description of site condition after remediation, including a map of residual contamination above background plus two standard deviations, method detection limits (MDLs), and Tier II Action Levels (ALs);
- Disposition of wastes;
- Site reclamation;

- Table of No Longer Representative (NLR) locations and sample numbers that have been remediated. These data will be used to mark database records so they are not used in the Comprehensive Risk Assessment (CRA) or other Site analyses; and
- Data quality assessment (DQA), including comparison of confirmation data with project data quality objectives (DQOs).

2.0 IHSS GROUP 100-4 ACTIVITIES

IHSS Group 100-4 consists of the following IHSSs, Under Building Contamination (UBC) sites, and Potential Areas of Concern (PACs):

- UBC 123, Radiological Health Physics Laboratory;
- IHSS 100-148, Waste Leaks;
- PAC 100-603, Bioassay Waste Spill; and
- PAC 100-611, Building 123 Scrubber Solution Spill.

The location of IHSS Group 100-4 is shown on Figure 1, and the IHSSs, PACs, and UBC sites are shown on Figure 2.

2.1 Site Characterization

IHSS Group 100-4 characterization information consists of historical knowledge and previously collected analytical data. Historical information for each IHSS, PAC, and UBC is presented below. IHSS Group 100-4 analytical data are presented in Section 2.1.5.

2.1.1 UBC 123, Radiological Health Physics Laboratory

Building 123 was located on Central Avenue, between Third and Fourth Streets. The original building was constructed in 1953, with additions completed in 1968, 1972, and 1974. Building 123 housed the Site's Radiological Health Physics Laboratory, where water, biological materials, soil, air, and filter samples were analyzed for the presence of plutonium; americium; uranium; alpha, beta, and gamma radiation; tritium; beryllium; and organic constituents. In addition, personnel radiation badges were counted and repaired in Building 123. Radioactive sources, including cesium, were stored in a below-grade concrete pit. Low-level liquid and chemical wastes were generated and transferred to onsite treatment systems via the process waste transfer and collection system (DOE 1992). Portions of RCRA Unit 40, including sumps and pipes, were part of UBC 123. Some of the underground process waste lines associated with Building 123 were abandoned in place and plugged with cement in 1982 (i.e., Original Process Waste Lines [OPWL]), while others remained in active use until laboratory operations were suspended in preparation for facility decommissioning (e.g., New Process Waste Lines [NPWL]). The process waste lines are shown on Figure 2.

Building 123 was decommissioned in 1998 in accordance with the Proposed Action Memorandum (PAM) for the Decommissioning of Building 123 (RMRS 1998a). At that time, the building structure and aboveground portions of the process waste system were removed, and the floor slab was sampled to assess areas of potential contamination. Contaminated portions of the slab that could not be decontaminated to meet the applicable unrestricted release criteria were encapsulated with epoxy paint to fix removable contamination and covered with steel plate. In addition, the underground sumps, pipe chases, and the process waste lines that ran from Room 156, through Rooms 157 and 158, to Valve Vault 18, were clean closed in place in accordance with the Closure Plan for the Building 123 Components of RCRA

Unit 40 (RMRS 1997). Partial closure was certified by a Colorado-registered professional engineer on May 28, 1998 (RMRS 1998b). A contaminated sump, located in Room 125, was removed during decommissioning. Final disposition of the building slab, underground sumps, process waste lines (including the abandoned lines), and source pits was deferred to the ER Program.

2.1.2 IHSS 100-148-Waste Leaks

The eastern wing of Building 123 is encompassed by IHSS 148. Persons interviewed for the Comprehensive Environmental Assessment and Response Program (CEARP) Phase 1 document indicated that several small spills of nitrate-bearing wastes occurred around the outside of Building 123. These wastes may have contained radionuclides. Additionally, interviewees indicated that there were potential releases of nitrate-bearing wastes from the OPWL buried beneath Building 123. This pipeline was in use from the start of operations in Building 123 until the OPWL were replaced by the NPWL.

Building 123 was serviced by a 4-inch-diameter process waste line (P-1) buried beneath the north and east wings of the building. The main process waste line drained from west to east in the north wing, and from north to south in the east wing. The pipe was sloped at 1 percent. A number of connections were made to the main pipe, some of which consisted of headers servicing process waste drains in the building. The pipe was probably constructed of a type of iron called "Duriron." The OPWL piping from Building 123 led to an underground tank system behind Building 441 that collected wastes generated by both Buildings 123 and 441. From this tank system, the process waste materials were pumped out for treatment in the process waste system (DOE 1992).

The OPWL drain was not double-contained, and it varied in depth from approximately 0.5 to 3.0 feet beneath the concrete floor of Building 123. The line came out from beneath the southern end of the east wing of the building, with an invert elevation of approximately 6,032.5 feet. Interviewees have stated that this line may have leaked without personnel being aware of it. The types of waste consisted of laboratory wastes from analysis of urine, fecal, and other bioassay samples. Nitrates and low levels of radionuclides were associated with the wastes carried in the OPWL. The NPWL that replaced the OPWL consisted of either double-contained underground or overhead lines (DOE 2000b).

Surface soil samples were collected and analyzed as part of the Operable Unit (OU 13) RCRA Facility Investigation/Remedial Investigation (RFI/RI). Thirty-four analytes were detected in the surface soil samples, including 26 inorganic compounds and 8 radionuclides. Eleven analytes exceeded background concentrations at a minimum of one sampling location throughout IHSS 148. Constituents that exceeded background concentrations were chromium, cobalt, copper, lead, nickel, strontium, zinc, americium-241, plutonium-239/240, uranium-233/234, and uranium-238. These data are available in the IA Data Summary Report (DOE 2000b).

Previously, a soil gas survey was conducted on a 25-foot grid and samples were analyzed in the field using gas chromatography/mass spectrometry. Sixty-four soil gas locations were sampled, and 13 samples contained volatile organic compound (VOC) levels in excess of the 1 microgram per liter (μ g/L) MDL. Benzene, toluene, ethylbenzene, xylene, and fuel constituents were detected in samples collected from the perimeter of Building 123 and within the east and west wings of the building. Trichlorofluoromethane was detected in nine samples distributed throughout the IHSS 148 area at levels up to 2.6 μ g/L. Tetrachloroethene was detected at 1.5 μ g/L in a sample collected east of Building 123.

Unconfirmed reports of contaminant spills were indicated in interviews with building employees. In the late 1960s or early 1970s, a cesium-contaminated liquid was reportedly spilled on the concrete floor in Room 109. The floor was immediately sealed to immobilize the contamination. Room 109 also contained source storage pits. Undocumented thorium research was performed in Room 105. Scoping surveys conducted in May through July 1997 revealed elevated levels of radioactivity in both Rooms 105 and 109. In-situ gamma spectroscopy measurements performed in August 1997 indicated the presence of cesium-137 and thorium-232 in Rooms 109 and 105, respectively (RMRS 1998c).

2.1.3 PAC 100-603-Bioassay Waste Spill

PAC 100-603 was approved as a NFA site in 2002 (CDPHE 2002). A description of this PAC is contained in the Annual Update for the Historical Release Report (DOE 2001c).

2.1.4 PAC 100-611-Building 123 Scrubber Solution Spill

An inoperative pump in the Building 123 process waste transfer system caused the Building 123 scrubber system to overflow, spilling scrubbing solution into a bermed area outside of the building and into three pits beneath the floor of the building. Also, approximately 5 gallons of liquid were present in and around a nearby storm water drainage ditch that served the Building 123 parking lot. It was speculated that this liquid leaked from the berm wall interface with the underlying asphalt. The 5 gallons of liquid in the parking lot drainage ditch did not react when sodium bicarbonate was applied, indicating it was not acidic and therefore, was not the scrubbing solution. All of the spilled solution was contained within secondary containment structures, and none of the solution was believed to have impacted the environment (DOE 1992).

Under normal operating conditions, the scrubbing solution drained into the process waste system when the scrubbing process was completed. The source of the problem was waste pump switches that were in the wrong position, as well as the influent valve that was blocked by glass filtering wool from Building 123. The scrubbing solution consisted primarily of water, which was used to scrub nitric acid, hydrofluoric acid, and hydrochloric acid used in Building 123.

Approximately 50 gallons were released to the bermed area, and several hundred gallons were contained in the three pits beneath the Building 123 floor. Analyses showed the solution in the bermed area had a pH of 1.6, while the solution in the three pits had a pH of 6.0 (DOE 1992).

Normal scrubbing solution drainage was restored when the glass wool material was cleared and the inoperative process waste pump was restarted. A submersible pump was used to transfer the scrubbing solution from the bermed area to process waste drains in Building 123. Measures were proposed to prevent subsequent buildup of glass wool in the process waste system. A RCRA Contingency Plan Implementation Report (CPIR) (89-019) was written (DOE 1992).

2.1.5 Analytical Data – UBC 123 and IHSS 148

As described in IASAP Addendum #IA-02-01 (DOE 2001b), potential contaminants of concern (PCOCs) at UBC 123 and IHSS 148 were determined based on data collected during the characterization of UBC 123, as summarized in the Final Data Summary Report for the Characterization of UBCs 123 and 886 (DOE 2001d), and data collected during previous studies (DOE 2001a, DOE 2000a). These pre-accelerated action data, greater than background plus two standard deviations or MDLs, along with RFCA Tier I and Tier II AL values are shown on Figures 3 and 4. Because a sufficient number of samples were collected during previous studies to characterize UBC 123 and IHSS 148, additional characterization was not required at these

sites. Results from previous sampling and analysis of surface and subsurface soils at UBC 123 and IHSS 148 indicated that:

- Lead was detected in subsurface soils above the Tier I AL at one location;
- The organics 2-4 dinitrotoluene and n-nitroso-di-n-propylamine, were detected above the RFCA Tier I Sum of Ratios (SORs) in surface soil at one location;
- Radionuclides and metals were detected at concentrations above background plus two standard deviations at UBC 123 and IHSS 148;
- Arsenic exceeding the Tier II AL but below background was detected at one location in surface soil;
- Beryllium exceeding the Tier II AL was detected at one location in surface soil; and
- Methylene chloride was detected in subsurface soil at levels slightly above the RFCA Tier II AL.

2.1.6 Analytical Data-PAC 100-611-Building 123 Scrubber Solution Spill

PAC 100-611 was not characterized prior to this accelerated action. Characterization sampling locations and specifications for PAC 100-611 were described in IASAP Addendum #IA-02-01 (DOE 2001b). The sampling specifications for the five characterization samples collected and analyzed for pH are listed in Table 1. The location of these samples and analytical results are shown on Figure 5. Analytical results are presented in Table 2.

2.2 Accelerated Action Description

Accelerated action activities including a description of the Area of Concern (AOC) and removal activities are described below.

2.2.1 Area of Concern

The AOC, shown on Figure 6, was determined based on analytical results from pre-accelerated action studies (Figures 3 and 4) (DOE 2000a, DOE 2001a, and DOE 2001c) described in Section 2.1.5. The AOC is defined as the area, not individual points, with a concentration of contaminants greater than background mean plus two standard deviations or MDLs. The AOC map also illustrates the limits of RFCA Tier II and Tier I exceedances. As shown on Figure 6 the Tier I SOR was exceeded (was greater than 1) at two locations. At the first location, near the north-central portion of the slab, subsurface soil lead concentrations were elevated at approximately one foot beneath the slab. At the second location, adjacent to the southwest corner of the slab, surface soil semivolatile organic compound (SVOC) concentrations were elevated.

Table 1
PAC 100-611-Characterization Sampling Specifications

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Medium	Depth Interval (ft)	Analyte	Laboratory Method
100-4	PAC 100-611 – Building 123 Scrubber Solution Spill	BU38-0010	2081738.50	749033.50	Surface Soil	0'5'	рН	9045
	•	BU38-0012	2081723.92	749042.34	Surface Soil	0'5'	pН	9045
		BU38-0013	2081731.33	749042.66	Surface Soil	0'5'	pН	9045
		BU38-0014	2081727.14	749039.11	Surface Soil	0'5'	pН	9045
		BU38-0015	2081723.59	749036.53	Surface Soil	0'5'	pН	9045

Table 2 PAC 100-611-Characterization Data

IHSS Group	IHSS/PAC/UBC Site	Location Code	Analyte	Result (SU)	MDL	Background Plus Two Standard Deviations	Tier II AL	Tier I AL
100-4	PAC 100-611 – Building 123 Scrubber Solution Spill	BU38-0010	pН	8.4	NA	NA	NA	NA
	•	BU38-0012	pН	8.8	NA	NA	NA	NA
		BU38-0013	pН	8.8	NA	NA	· NA	NA
		BU38-0014	pН	8.7	NA	NA	NA	NA
		BU38-0015	pН	8.8	NA	NA	NA	NA

Not Applicable Standard Unit NA

SU

Based on these data, accelerated action objectives were developed and described in ER RSOP Notification #02-01 (DOE 2002b). The accelerated action objectives for IHSS Group 100-4 included the following:

- Remove the Building 123 slab, footers, source pits, and manholes and, if appropriate, recycle in accordance with the RSOP for Recycling Concrete (DOE 1999a);
- Remove the below-grade sumps and process waste lines to Valve Vault 18;
- Remove soil with contaminant concentrations greater than RFCA Tier I ALs; and
- Collect confirmation samples in accordance with the IASAP (DOE 2001a).

Remediation activities were conducted between January 29 and April 18, 2002. Start and end dates of significant activities are listed in Table 3.

Table 3

Dates of Accelerated Action Activities

Activity	Start Date	End Date	Duration
Characterization Sampling at PAC 100-611	February 5, 2002	February 5, 2002	1 Day
Removal Activities	January 31, 2002	April 2, 2002	61 Days
Backfill Excavations	February 15, 2002	April 4, 2002	49 Days
Reseed	April 18, 2002	April 18, 2002	1 Day

Photographs of site activities are provided in Appendix A.

2.2.2 Removal Activities

ER RSOP Notification #02-01 accelerated action project objectives were achieved through the following:

- Removal of the concrete slab and associated structures;
- Removal of below-grade sumps and process waste lines; and
- Removal of soil with contaminant concentrations greater than RFCA Tier I ALs.

These removal activities are described below.

Building 123 Slab, Footers, Source Pits, and Manholes

The Building 123 slab was broken up and removed using an excavator with a hydraulic hammer and bucket/thumb attachment (Photograph 1, Appendix A). As the concrete slab was excavated, the underneath side of the concrete was scanned with an NE Electra to determine if radionuclides were present. Concrete with fixed contamination covered with steel plates was cut out of the slab using a concrete saw. The cut concrete was then removed from the slab using the excavator with bucket/thumb attachment. Additionally eight samples were collected from the concrete for waste characterization. Analytical results are presented in the Section 2.6. Concrete that was not contaminated was recycled in accordance with the RSOP for Recycling Concrete (DOE 1999a).

Concrete that was determined contaminated or with known fixed contamination was removed and will be transported to the Nevada Test Site (NTS) for disposal as low-level waste (LLW).

Concrete building footers (Photograph 2, Appendix A) were excavated and scanned with an NE Electra to determine if radionuclides were present. Concrete was recycled in accordance with the RSOP for Recycling Concrete (DOE 1999a).

The 18-foot-long cesium-137 source well (Photographs 3 and 4, Appendix A) was removed. The source well piping consisted of 18-inch diameter corrugated steel pipe with a slightly smaller diameter stainless steel liner pipe. A stainless steel bottom was welded to the bottom of the corrugated pipe. The source well appeared to be filled with concrete. It was excavated in one piece and no significant corrosion was observed on the corrugated pipe surface. No contamination was observed on the pipe surface or on the bottom of the pipe. Positive analytical results are presented in Section 2.6 and all analytical data are presented in Appendix B. Groundwater was observed approximately 5 feet below the top of the pipe. This groundwater was not sampled. The source well was packaged and will be transported to NTS for disposal as LLW.

Once removed, samples were collected from soil beneath the bottom of the source well pipe and from soil adhered to the bottom of the pipe for radionuclide analyses. All results were less than RFCA Tier II ALs. The source well was backfilled with the excavated sand (Photograph 5, Appendix A). Samples were also collected from the stockpile of sand removed from around the pipe. Because of the depth of the source well excavation (approximately 20 feet) and associated hazards and weather issues, the excavation was immediately backfilled following sampling of the excavation (Appendix A, Photograph 5).

Manhole (MH)-1 and MH-2 (Appendix A, Photograph 6), and the approximately 5'x5' concrete slabs beneath the manholes were excavated. Soil samples were collected from beneath the manhole slab and are presented in Section 2.3, Confirmation Sampling. The concrete manholes and slabs were packaged and will be transported to NTS for disposal as LLW.

Sumps And Process Waste Lines

Sumps, OPWL, and NPWL in IHSS Group 100-4 are shown on Figure 2 and Photographs 8 through 12 in Appendix A. Accelerated action objectives were to remove all sumps and process waste lines within the AOC. Sumps located in the former Rooms 156, 157, and 158 were removed along with more than 1 foot of soil around and beneath the sumps. Pipelines between former Rooms 156 and 157 sump locations and more than 1 foot of soil around and beneath the pipelines were excavated. Additionally, approximately 40 feet of associated 4-inch-diameter stainless steel pipeline was excavated. Contamination was not detected on sumps or associated pipeline. Confirmation samples were collected from beneath each sump location, and one confirmation sample was collected in the pipeline trench between the Room 156 and 157 sump locations. Sumps were packaged and will be transported to NTS for disposal as LLW.

Most OPWL and NPWL in IHSS Group 100-4 were excavated and removed. Figure 7 shows the extent of pipeline removed, pipeline left in place, and pipeline not found. Two pipeline segments

were left in place because of logistical constraints. One to the south of UBC123 and one to the east. The pipeline ends were grouted with Sika Grout 212. These pipelines will be addressed when IHSS 121 (OPWL) and PAC 000-504 (NPWL) are addressed. Removed pipelines were packaged and will be transported to NTS for disposal as LLW.

Overburden was excavated and stockpiled near the pipeline excavations. Figure 8 shows the location of soil piles. As pipeline was removed, it was evaluated to determine whether there were cracks or other evidence of potential leaks.

While pipeline removal was routine, there were several unexpected events.

- At the time of removal, liquid drained from a 4-foot section of the east-west section of P-2, located beneath the former Room 112 (northwestern section of Building 123). The liquid was released when the cast iron pipe broke during removal. The excavation was stopped in this area, and samples of the liquid and soil beneath the liquid were collected. No contamination was detected on the removed pipe or in the liquid. Approximately 1 gallon of liquid was standing in the sand bedding beneath the pipe (Photograph 13, Appendix A). No other liquid was encountered during removal of the east-west section of P-2 pipe.
- Excavation of overburden soil above approximately 35 feet in length of the B123 P-1 process waste pipe extending east from MH-1 was stopped when it was determined that, if continued, the trench would be in close proximity to a known underground communications line in this area. Excavation was continued after evaluation determined it was safe to proceed.
- Two 10-foot sections of steam piping with asbestos-containing insulation were found beneath
 the northeastern section of the slab, removed, and packaged by an asbestos abatement
 contractor.
- Unanticipated pipeline was found beneath the northern section of the slab, south of the sumps and removed.
- A sheet of lead (about 2'x 3'x 1/8" thick) was encountered beneath an 8-inch diameter drain located approximately 5 feet south of the lead-contaminated soil location. The lead sheet, observed approximately 3 inches beneath the drain, was removed.

During process waste line removal, pipelines were evaluated to determine the condition of the pipeline. Table 4 summarizes the pipelines and their condition. Confirmation sampling analytical data are presented in Section 2.3.

Contaminated Soil

An approximately 4' x 4' x 4' section of subsurface lead-contaminated soil (Figure 6 and Photographs 16 and 17 in Appendix A) was excavated. An approximately 5'x 5' x 3' section of SVOC-contaminated soil (Figure 6) was excavated. Soil was packaged and will be shipped to Envirocare as low-level mixed waste (LLMW).

Table 4
Process Waste Line Summary

Pipeline Number	Composition	Leaks/Breaks	Approximate Depth (feet)	Type and Location of Seal	Photograph Number (Appendix A)
P-1 NPWL (1989)	Fiber Reinforced	No breaks, leaks, or staining	5	NA	14
P-1 OPWL (1972)	Stainless Steel	No breaks, leaks, or staining	5	NA ′	14
P-2 (1952)	Cast Iron	No breaks, leaks, or staining	4 to 6	Grouted with Sika Grout 212 at Manhole 2	7 and 15
P-2 pipe chases	Cast Metal	No breaks, leaks, or staining	0.5 to 1	NA	
Unanticipated P-2 pipeline found at Sample Locations BU39-0004 and Northern Process Line	Cast Iron	No breaks, leaks, or staining	5	Grouted with Sika Grout 212 at Manholes 3 and 4	NA

2.3 Confirmation Sampling

Confirmation sampling and analysis was conducted, after excavation and before backfilling, to verify accelerated action goals. Planned confirmation sampling locations were developed as part of the consultative process and are shown on Figure 9. Locations of collected confirmation samples are shown on Figure 10. Several confirmation sampling locations were changed because of the following:

- Pipeline was not found at that location; and
- Pipeline was found at locations not previously mapped.

Table 5 summarizes the analytes that were obtained from each sampling location. Only one location, BU38-0009, was sampled for organics. This location corresponds to the area where the RFCA Tier I SOR for SVOCs was greater than 1 in surface soil. Metals were analyzed at locations BU39-0006, -0007, -0008, -0012, and -0013 where lead concentrations were greater than RFCA Tier I ALs. Radionuclides were analyzed at all other locations associated with the process waste lines, sump, and source pit excavations.



Table 5

IHSS Group 100-4-Confirmation Sampling Specifications

IHSS Group	IHSS/PAC/UBC Site	Sampling Location	Easting	Northing	Media	Depth Interval (feet)	Analyte	Laboratory Method	Comments
			2001520.02	540000 10	6. 6. 6.1		D • • • • • • • • • • • • • • • • • • •		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
100-4	UBC 123 -	BU38-0002	2081729.02	749039.10	Subsurface Soil	8.0	Radionulcides	Alpha Spec	Manhole 2
	Radiological Health Physics Laboratory								,
	IHSS 100-148 –								
	Waste Leaks								
		BU38-0003	2081656.21	749038.61	Subsurface Soil	7.0	Radionuclides	Alpha Spec	
		BU38-0004	2081652.69	749068.93	Subsurface Soil	5.0	Radionulcides	Gamma Spec	
								Alpha Spec	
		BU38-0005	2081653.59	749089.94	Subsurface Soil	5.0	Radionuclides	Alpha Spec	Southwestern Sump
		BU38-0006	2081653.59	749103.45	Subsurface Soil	5.0	Radionuclides	Alpha Spec	Western Sump
		BU38-0007	2081653.59	749145.41	Subsurface Soil	5.0	Radionuclides	Alpha Spec	Northern Sump on Western Side
		BU38-0008	2081653.59	749124.00	Subsurface Soil	5.0	Radionuclides	Alpha Spec	West Process Line
		BU38-0009	2081608.1	749065.5	Subsurface Soil	2.0	SVOCs	8270	
ļ		BU39-0001	2081695.58	749213.15	Surface Soil	0.0-0.5	Radionulcides	Alpha Spec	
		BU39-0003	2081642.68	749195.15	Subsurface Soil	2.0	Radionulcides	Alpha Spec	West Point Northern Pad Process Line
]		BU39-0004	2081676.72	749194.75	Subsurface Soil	2.0	Radionulcides	Alpha Spec	Center Process Line on
		2037 0001	2001070.72	, 13131.73	Buosuriuco Bon	2.0	Rudionalcides	7 tipila opec	Northern Pad
J	•	BU39-0005	2081682.58	749184.90	Subsurface Soil	2.0	Radionulcides	Alpha Spec	Southern Process Line
•									on Northern Pad
		BU39-0006	2081698.67	749220.80	Subsurface Soil	4.0	Metals	6010	Lead Area Excavation
									Bottom Center
		BU39-0007	2081700.67	749218.80	Subsurface Soil	4.0	Metals	6010	Lead Area Excavation East Side Wall
ļ		BU39-0008	2081696.67	749218.80	Subsurface Soil	4.0	Metals	6010	Lead Area Excavation
					•				South Side Wall
		BU39-0011	2081729.47	749164.49	Subsurface Soil	2.0	Radionulcides	Gamma Spec	Northern Trench on
ļ								Alpha Spec	Eastern Slab, West
		BU39-0012	2081696.67	749222.80	Subsurface Soil	4.0	Metals	6010	Side of Trench Lead Area Excavation
		D 0 3 9 - 00 1 2	2001090.07	149222.00	Substituce Still	4.0	ivictais	0010	West Side Wall

	~
S	ń
	_

IHSS Group	IHSS/PAC/UBC Site	Sampling Location	Easting	Northing	Media	Depth Interval (feet)	Analyte	Laboratory Method	Comments
		BU39-0013	2081731.33	749042.66	Subsurface Soil	4.0	Metals	6010	Lead Area Excavation North Side Wall
		BV39-0003	2081753.57	749164.40	Subsurface Soil	2.0	Radionulcides	Gamma Spec Alpha Spec	Northern Trench on East Slab, East Side of Trench
		Central pt. on S. PWL	2081676.505	749035.331	Subsurface Soil	5.0	Metals Radionulcides	6010 Alpha Spec	
		Eastern Process Line (BU38-0001)	2081730.80	749131.89	Subsurface Soil	5.0 (approximate)	Radionulcides	Alpha Spec	
		Northern Process Line	In-Process Sample	In-Process Sample	Subsurface Soil	0.0-1.5	Metals Radionulcides	6010 Alpha Spec	
		Source Pit (BU39- 0002)	2081621.13 (estimated)	749189.52 (estimated)	Subsurface Soil	18.0	Metals Radionulcides	6010 Alpha Spec	
		Southeast Slab	2081748.236	749059.106	Concrete	0.0	Radionuclides	Gamma Spec	

Confirmation sampling results indicate that all contaminant concentrations are less than RFCA Tier II ALs. Results of the confirmation sampling are shown on Figure 11 and detailed in Table 6. Figure 11 and Table 6 present confirmation sampling results that are greater than background plus two standard deviations or MDLs along with RFCA Tier I and Tier II ALs for reference. Confirmation sampling contaminant concentrations were below the proposed Wildlife Refuge Worker (WRW) ALs. Residual lead concentrations were greater than the proposed ecological ALs. The complete data set is in Appendix B.

SOR calculations were based on the following list of contaminants of concern (COCs):

- Radionuclides (americium-241, plutonium-239/240, uranium-234, uranium-235, and uranium-238);
- Metals (arsenic, copper, mercury, lead); and
- Organics (SVOCs).

The COCs are based on characterization data that exceed background plus two standard deviations or MDLs. Metals and organics were grouped together for nonradionuclide SOR calculations. Plutonium, americium, and uranium were grouped together for radionuclide SOR calculations. Tier II SOR calculations for radionuclides and nonradionuclides are presented on Figures 12 and 13, respectively. As shown, all locations are less than the threshold value of 1. Table 7 lists the confirmation sampling RFCA Tier II SORs.

2.4 RCRA Unit Closure

During decommissioning the pipe chases and sumps in Rooms 156, 157, and 158, shown on Figure 14, were closed in accordance with the Closure Plan for Building 123 Components of RCRA Unit 40 (DOE 1997) but were not removed. Closure of the sump in Room 125 and the underground pipe from Room 158 did not meet the closure performance standards (RMRS 1998b) and were deferred to ER remediation. RCRA COCs at this location were metals and radionuclides.

RCRA closure accelerated action objectives were to remove all sumps and process waste lines associated with RCRA Unit 40, shown in Figure 14, within the IHSS Group 100-4 AOC. Sumps located in the former Rooms 156, 157, and 158 were removed along with more than 1 foot of soil around and beneath the sumps. Pipelines between former Rooms 156 and 157 sump locations and more than 1 foot of soil around and beneath the pipelines was excavated. Additionally, approximately 40 feet of associated 4-inch diameter stainless steel pipeline was excavated. Contamination was not detected on sumps or associated pipeline.

Confirmation samples were collected from the soil beneath each sump location, and one was collected in the pipeline trench between the Room 156 and 157 sump locations. Confirmation sampling locations are BU38-0002, BU38-0003, BU38-0004, BU38-0005, BU38-0006, BU38-0007, BU38-0008 and the Central Point of Southern PWL. Soil samples were analyzed for radionculides only because they could be used as an indication of sump or pipeline leaks.

75

Table 6
Confirmation Sampling Results Greater Than Background Plus Two Standard Deviations or Method Detection Limits

IHSS	IHSS/PAC/UBC Site		,				
Group	inss/PAC/UBC site	Location Code	Analyte	Result (pCi/g)	Background Plus Two Standard Deviations		Tier II AL
Group				(hcn8)	Standard Deviations (pCi/g)	(pCi/g)	(pCi/g)
	·				(PO25)		
100-4	UBC 123 - Radiological	BU38-0002	Uranium-238	1.66	1.49	506.00	103.00
	Health Physics Laboratory				:		
	IHSS 100-148 – Waste Leaks	;					
	Leaks	BU38-0002	Uranium-238	1.66	1.49	506.00	103.00
		BU38-0004	Uranium-235	0.20	0.12	113.00	24.00
			Uranium-238	1.68	1.49	506.00	103.00
		BU38-0005	Americium-241	0.05	0.02	209.00	38.00
		BU39-0001	Uranium-238	3.03	1.49	506.00	103.00
		BU39-0004	Americium-241	0.08	0.02	209.00	38.00
		BU39-0011	Uranium-238	3.09	1.49	506.00	103.00
		BV39-0003	Uranium-235	0.30	0.12	113.00	24.00
			Uranium-235	0.23	0.12	113.00	24.00
			Uranium-238	3.70	1.49	506.00	103.00
			Uranium-238	5.06	1.49	506.00	103.00
		Central Point on Southern PWL	Uranium-238	1.55	1.49	506.00	103.00
		Eastern Process Line	Americium-241	0.13	0.02	209.00	38.00
			Plutonium-239/240	0.06	0.02	1,088.00	252.00
			Uranium-238	2.47	1.49	506.00	103.00
		Northern Process Line	Plutonium-239/240	0.11	0.02	1,088.00	252.00
			Uranium-235	0.15	0.12	113.00	24.00

Table 7
RFCA Tier II Sum of Ratios

Location	Tier II SOR	Tier II SOR
	Radionuclides	Nonradionuclides
BU38-0002	0.13	NA
BU38-0003	0.01	NA
BU38-0004	0.14	NA
BU38-0005	0.01	NA
BU38-0006	0.01	NA
BU38-0007	0.00	NA
BU38-0008	0.00	NA
BU38-0009	NA	0.00
BU39-0001	0.15	NA
BU39-0003	0.13	NA
BU39-0004	0.13	NA
BU39-0005	0.12	NA
BU39-0006	NA	0.01
BU39-0007	NA	0.00
BU39-0008	NA	0.01
BU39-0012	NA	0.01
BU39-0013	NA	0.01
BV39-0001	0.13	NA
BV39-0003	0.18	NA
123 Emergency Southeastern Process Line	0.13	NA
123 Pad Soil Sample	0.12	NA
B123 Metal Manhole	0.12	NA
Source Well Pipe	0.13	NA
West of Manhole 2	0.01	NA
Central Point on Southern PWL	0.13	NA
Eastern Process Line	0.14	NA
Northern Process Line	0.13	NA
Source Pit	0.12	NA
Southeast Slab	0.13	NA

NA Not applicable because sample was not analyzed for specific constituents.

If elevated radionuclides were detected, additional analyses for metals could be required. As indicated in Table 6, americium-241 is slightly greater than background plus two standard deviations at one location, uranium-235 is slightly greater than background plus two standard deviations at one location, and uranium-238 is slightly greater than background plus two standard deviations in two locations. These data indicate that the sumps and pipelines had not leaked. Results for analytes greater than background plus two standard deviations are shown on Figure 11 and summarized in Table 6. The full data set is presented in Appendix B

RCRA Unit 40 process waste lines were excavated and removed from the sumps to MH-2. The remaining pipeline south of MH-2 to Valve Vault 18 could not be removed because of infrastructure constraints. The location of this pipeline is shown on Figure 15. The sump (waste pumping station), reported to be in Room 125, was not found. The following portions of RCRA Unit 40 were removed:

- Sumps in former Rooms 156, 157, and 158, and associated pipelines; and
- Process waste line from the sumps to MH-2.

2.5 Deviations from the ER RSOP

Deviations from the ER RSOP include the following:

- Actual confirmation sampling locations differed slightly from planned locations in most cases and several planned confirmation samples were not collected. A comparison of planned versus actual sampling locations is presented in Table 8.
- Several confirmation sampling locations were not measured but were hand plotted and estimated as noted on Table 5; and
- Process waste line removal stopped at the steamlines because of worker safety issues.
 Remaining NPWL and OPWL will be dispositioned with IHSS Group 000-4, PAC 000-504 and IHSS Group 000-2, IHSS 000-121 respectively.

Table 8
Planned Versus Actual Sampling Locations

Sampling Location	Planned Easting	Planned Northing	Acutal Easting	Actual Northing	Comments
BU38-0001	2081723.239	749136.392	2081730.80	749131.89	No significant change
BU38-0002	2081724.613	749036.094	2081729.02	749039.10	No significant change
BU38-0003	2081657.748	749031.973	2081656.21	749038.61	No significant change
BU38-0004	2081658.206	749063.573	2081652.69	749068.93	No significant change
BU38-0005	2081657.290	749093.800	2081653.59	749089.94	No significant change
BU38-0006	2081657.748	749105.249	2081653.59	749103.45	No significant change
BU38-0007	2081657.290	749146.925	2081653.59	749145.41	No significant change
BU38-0008	2081661.870	749125.400	2081653.59	749124.00	No significant change
BU38-0009	2081695.303	749218.828	2081608.1	749065.5	No significant change
BU38-0011	NA	NA	In-Process Sample	In-Process Sample	In process sample, not sampled

Sampling Location	Planned Easting	Planned Northing	Acutal Easting	Actual Northing	Comments
BU39-0001	2081623.858	749.182.647	2081695.58	749213.15	No significant change
BU38-0010	2081757.588	749036.094	NA	NA	Not sampled, pipeline not found
BU39-0001	NA	NA	NA	NA	Waste sample
BU39-0002	2081633.934	749200.051	2081621.13 (estimated)	749189.52 (estimated)	No significant change
BU39-0003	2081647.215	749210.126	2081642.68	749195.15	No significant change
BU39-0004	2081670.572	749206.920	2081676.72	749194.75	No significant change
BU39-0005	2081679.731	749184.479	2081682.58	749184.90	No significant change
BU39-0006	2081697.593	749221.118	2081698.67	749220.80	No significant change
BU39-0007	2081699.882	749218.370	2081700.67	749218.80	No significant change
BU39-0008	2081695.303	749218.828	2081696.67	749218.80	No significant change
BU39-0009	2081699.424	749224.323	NA	NA	Same location as BU39-0013
BU39-0010	2081695.761	749224.323	NA	NA	Same Location as BU39-002
BU39-0011	2081722.781	749165.244	2081729.47	749164.49	No significant change
BU39-0012	2081785.066	749036.552	2081696.67	749222.80	No significant change
BU39-0013	2081757.588	749036.094	2081731.33	749042.66	No significant change
BV39-0003	2081754.382	749166.160	2081753.57	749164.40	No significant change
BV38-0001	2081784.608	749079.144	NA	ŅA	Not sampled, pipeline not removed
BV38-0002	2081785.066	749036.552	NA	NA	Not sampled, pipeline not removed
BV38-0004	NA	NA	NA	NA	Waste sample
BV39-0001	2081752.092	749210.584	NA	NA	Waste sample
BV39-0002	2081746.138	749195.471	NA	NA	Not sampled, sump not found
Central point on Southern. PWL	NA	NA	2081676.505	749035.331	Sampled, but not planned
Northern Process Line	NA .	NA	In-Process Sample	In-Process Sample	In Process Sample
Southeast Slab	NA	NA	2081748.236	749059.106	Concrete sampled instead of soil at BV38- 0004

2.6 Waste Management

Waste from the IHSS Group 100-4 accelerated action consisted of concrete, asphalt, soil, and pipeline. Clean concrete was segregated and recycled in accordance with the RSOP for Recycling Concrete (DOE 1999a). Contaminated concrete was loaded into metal waste boxes for disposal as LLW. Pipeline was placed in metal waste containers for disposal as low-level mixed waste (LLMW) along with the lead liner found inside the concrete. In addition, two 10-foot sections of steam piping with asbestos-containing insulation were removed and packaged, and removed from the Site by an asbestos abatement contractor. Asphalt was removed for disposal as sanitary waste. More than 2,484, pounds (lbs) of sanitary waste, 25,620 lbs of LLW, 120,026 lbs of LLMW, and 15 lbs of asbestos-containing material (ACM) was generated during this accelerated action. Waste types, volumes, and disposition are presented in Table 9.



Table 9
Waste Characterization Summary

Container Number	Extended Number	Container Type	Volume (cu.ft.)	Waste Type	Gross Weight (lbs.)	Status	Notes	IDC	Waste Codes	Disposition
B02192	123P-00020	CAB	96	LLMW	6,420	Full and sealed	Soil from beneath room 105	324	D008	Transported to 904 Pad 5/30/02; will be shipped to Envirocare
B02193	123P-00015	CAB	96	LLMW	4,120	Full and sealed	Process waste piping, with lead	324/5001	D008	Transported to 904 Pad 5/30/02; will be shipped to Envirocare
B02228	123P-00019	CAB	96	LLMW	4,080	Full and sealed	Process waste pipe, with lead	324/5001	D008	Transported to 904 Pad 5/30/02, will be shipped to Envirocare
B02229	123P-00016	CAB	96	LLMW	3,340	Full and sealed	Process waste pipe, with lead	324/5001	D008	Transported to 904 Pad 5/30/02; will be shipped to Envirocare
B02188	123P-00023	CAB	96	LLMW	7,660	Full and sealed	Soil from beneath room 105	324	D008	Transported to 904 Pad 5/30/02; will be shipped to Envirocare
B02189	123P-00008	CAB	96	LLW	2,920	Foamed and sealed	Concrete from room 109	5001/323	NA	Transported to 904 Pad 5/30/02; will be shipped to NTS
B02190	123P-00009	CAB	96	LLW	4,540	Foamed and scaled	Concrete from room 125	5001/323	NA	Transported to 904 Pad 5/30/02; will be shipped to NTS
B02191	123P-00010	CAB	96	LLW	3,480	Foamed and sealed	Concrete from room 109	5001/323	NA	Transported to 904 Pad 5/30/02; will be shipped to NTS
B02194	123P-00011	CAB	96	LLW	3,480	Foamed and scaled	Concrete and metal, from room 109	5001/323	NA	Transported to 904 Pad 5/30/02; will be shipped to NTS
B02195	123P-00012	CAB	96	LLW	3,020	Foamed and sealed	Concrete and metal, room 125	5001/323	NA	Transported to 904 Pad 5/30/02; will be shipped to NTS
B02196	123P-00013	CAB	96	LLW	3,820	Foamed and sealed	Crushed concrete and metal from room 109	5001/323	NA	Transported to 904 Pad 5/30/02; will be shipped to NTS
B02197	123P-00014	CAB	96	LLW	1,240	Full and sealed	Crushed concrete	5001	NA	Transported to 904 Pad 5/30/02; will be shipped to NTS
B02230	123P-00017	CAB	96	LLW	5,600	Full and sealed	Soil	323	NA	Transported to 904 Pad 5/30/02; will be shipped to NTS
X29337	123P-00037	ST Cargo	1,280	LLW	29,580	In process, sampled for	Concrete vault, piping; load for shipment to NTS	323/5001	NA	Shipped to NTS 6/4/02

_	
<u> </u>	
-	

Container Number	Extended Number	Container Type	Volume (cu.ft.)	Waste Type	Gross Weight (lbs.)	Status	Notes	IDC	Waste Codes	Disposition
						hazardous constituents	5/22/02			
X29522	123P-00022	ST Cargo	1,280	LLW	4,386	Foamed and sealed	NCR for hole in side of cargo, 2 concrete vaults, plastic, Styrofoam	323/5001	NA	Awaiting NTS profile modification and approval prior to shipment
X29537	123P-00021	ST Cargo	1,280	LLW	34,740	Foamed and sealed	Concrete vault and piping	323/5001	NA ·	Awaiting NTS profile modification and approval prior to shipment
L00857	123P-00025	Lift Liner	258	LLW	6,480	Sealed	Concrete rubble	323/5001	NA	Awaiting NTS profile modification and approval prior to shipment
L00858	123P-00026	Lift Liner	258	LLW	16,740	Sealed	Concrete rubble	323/5001	NA	Awaiting NTS profile modification and approval prior to shipment
X29848	NA	Bag	90	ACM	15	Full	Dispositioned in B779 Roll-off		NA	Dispositioned with B779 ACM wastes
47	123 Recycle	End dumps	18,898	Sanitary	1,984,244	Full	Concrete	NA	NA	Recycled onsite
20	20809	R23	636	Sanitary	unknown	Full	Metal Debris-Consists of electrical conduit, rebar with small amounts of concrete, and electrical wire	0323	NA	Shipped to Front Range Landfill
21	20809	R23	636	Sanitary	55,613	Full	Debris-consists of electric conduit, rebar with small amounts of concrete, electrical wire, asphalt (123 pad & 121 pad), and wood chip board.	0323	NA	Shipped to Front Range Landfill .
22	20809	R23	636	Sanitary	55,613	Full	Asphalt	0323	NA	Shipped to Front Range Landfill
25	30340	R23	636	Sanitary	55,613	Full	Asphalt	0323	NA	Shipped to Front Range Landfill



Container Number	Extended Number	Container Type	Volume (cu.ft.)	Waste Type	Gross Weight (lbs.)	Status	Notes	IDC	Waste Codes	Disposition
26	30340	R23	636	Sanitary	55,613	Full	Asphalt	0323	NA	Shipped to Front Range Landfill
27	20809	R23	636	Sanitary	55,613	Full	Asphalt	0323	NA	Shipped to Front Range Landfill
28	30340	R23	636	Sanitary	55,613	Full	Asphalt	0323	NA	Shipped to Front Range Landfill
29	20809	R23	636	Sanitary	55,613	Full	Asphalt	0323	NA	Shipped to Front Range Landfill
30	30340	R23	636	Sanitary	55,613	Full	Asphalt and plastic	0323	NA	Shipped to Front Range Landfill
31	20809	R23	636	Sanitary	55,613	Full	Asphalt	0323	NA	Shipped to Front Range Landfill
32	NA	End Dump	1,942	Sanitary	Unknown	Full	Asphalt, electrical conduit and rebar with concrete; no container number (used end dump #9); probably represents several loads.	0323	NA	Shipped to Front Range Landfill

CAB cost advantage box

Excavated soil was temporarily stockpiled near the excavations (Figure 8). Samples were collected from the soil stockpiles to determine the final disposition of the excavated soil. Because analytical results from soil stockpile samples did not exceed RFCA Tier II subsurface soil ALs (Table 10), this soil was placed back into the excavations.

2.7 Site Reclamation

All excavated areas were backfilled and revegetated after confirmation sampling results were received and discussed with regulatory agencies through the consultative process. Excavated soil with radionuclide concentrations less than RFCA Tier II ALs was used as backfill in the trench that it was removed from. Additionally, 32 end-dump loads of topsoil from offsite sources were used to bring excavated areas up to grade.

The IHSS Group 100-4 area was rough graded before the topsoil was distributed over the site. The topsoil was graded, then scarified, and a seed mix consisting of Canada bluegrass was spread over the site using broadcast seeding methods. Hydromulch was applied to conserve moisture and prevent seed erosion.

2.8 Accelerated Action Goals

ER RSOP Notification #02-01 accelerated action project objectives were achieved through the following:

- Removal of the concrete slab and associated structures;
- Removal of below-grade sumps and process waste lines to MH-1; and
- Removal of all soil with contaminant concentrations greater than RFCA Tier I ALs.

Removal activities were consistent with and contributed to the ER RSOP overall long-term remedial action objectives (RAOs) for RFETS soil. This contribution is described below.

RAO 1: Provide a remedy consistent with the RFETS goal of protection of human health and the environment. Removal of the UBC 123 slab, all structures and pipelines to MH-1, all soil with contaminant concentrations greater than RFCA Tier I ALs contributed to the protection of human health and the environment because potential sources of contamination were removed.

RAO 2: Provide a remedy that minimizes the need for long-term maintenance and institutional or engineering controls. Removal of the UBC 123 slab, all structures and pipelines to MH-1, and all soil with contaminant concentrations greater than RFCA Tier I ALs minimizes the need for long-term maintenance and institutional or engineering controls because potential sources of contamination were removed.

RAO 3: Minimize the spread of contaminants during implementation of accelerated actions. Best management practices were used to prevent the spread of contaminants during the accelerated action. Air monitoring data during the accelerated action did not indicate any exceedances.

Table 10
Waste Characterization Data Summary–Detected Analytes

Matrix Type	Analyte	Maximum	Number Samples	Detection Frequency %	Tier I AL	Tier II AL	Units
Concrete	Americium-241	0.05	3	100	NA	NA	pCi/g
Concrete	Curium	0.13	3	100	NA	NA	pCi/g
Concrete	Uranium-234	1.36	3	100	NA	NA	pCi/g
Concrete	Uranium-235	0.16	3	100	113	24	pCi/g
Concrete	Uranium-238	1.09	3	100	NA	NA	pCi/g
Concrete	Actinium	1.34	3	100	NA	NA	pCi/g
Concrete	Antimony-125	0.01	3	100	NA	NA	pCi/g
Concrete	Cerium-144	0.02	3	100	NA	NA	pCi/g
Concrete	Cesium-137	8.68	3	100	NA	NA	pCi/g
Concrete	Cobalt-60	0.02	3	100	NA	NA	pCi/g
Concrete	Europium-152	0.03	3	100	NA	NA	pCi/g
Concrete	Europium-154	-0.01	3	100	NA	NA	pCi/g
Concrete	Europium-155	0.03	3	100	NA	NA	pCi/g
Concrete	Lead	1.41	. 3	100	NA	NA	pCi/g
Concrete	Potassium	38.70	3	100	NA	NA	pCi/g
Concrete	Promethium	0.00	3	100	NA	NA	pCi/g
Concrete	Promethium-146	0.0204	3	100	NA	NA	pCi/g
Concrete	Rutheunium-106	0.05	3	100	NA	NA	pCi/g
Concrete	Thorium-234	1.27	3	100	NA	NA	pCi/g
Concrete	Uranium-235	0.17	3	33	NA	NA	pCi/g
Concrete	Uranium-238	1.27	3	100	NA	NA	pCi/g
Concrete	Yttrium-88	0.0108	3	100	NA	NA	pCi/g
Pipe Scale	2-Butanone	8.6	1	100	NA	NA	μg/kg
Pipe Scale	2-Ethyl-1-hexanol	85	1	100	NA	NA	μg/kg
Pipe Scale	4-Isopropyltoluene	2.6	1	100	NA	NA	μg/kg
Pipe Scale	Acetone	25	1	100	27,200,000	272,000	μg/kg
Pipe Scale	Benzene 1,2,3,5-tetramethyl	9.9	i	100	NA	NA	μg/kg
Pipe Scale	Benzene 1,2,4-trimethyl	2	. 1	100	NA	NA	μg/kg
Pipe Scale	Ethylbenzene	1.9	1	100	932,000	9,320	μg/kg
Pipe Scale	Hexanol	12	l	100	NA	NA	μg/kg
Pipe Scale	Methlylene chloride	1.6	1	100	578	5.78	μg/kg
Pipe Scale	Naphthalene	8.8	1	100	10,100,000	101,000	μg/kg
Pipe Scale	Styrene	3	1	100	274,000	2,740	μg/kg
Pipe Scale	Toluene	4.4	1	100	707,000	7,070	μg/kg
Pipe Scale	Xylenes (total)	18	1	100	9,740,000	97,400	μg/kg
Waste Soil	4-Nitrophenol	140.00	1	100	NA	NA .	μg/kg
Waste Soil	Methylene chloride	2.50	1	100	578	5.78	μg/kg
Waste Soil	Pyrene	62.00	1	100	397,000,000	3,970,000	μg/kg
Waste Soil	Actinium	2.01	30	100	NA	NA	pCi/g
Waste Soil	Americium-241	4.43	29	15	209	38	pCi/g
Waste Soil	Uranium-234	1.00	13	100	1,627	307	pCi/g
Waste Soil	Uranium-235	0.31	29	17	113	24	pCi/g
Waste Soil	Uranium-238	3.46	29	100	506	103	pCi/g
Waste Soil	Actinium-228	2.01	29	100	NA	NA	pCi/g

Matrix Type	Analyte	Maximum	Number Samples	Detection Frequency %	Tier I AL	Tier II AL	Units
Waste Soil	Americium-241	4.43	28	100	209	38	pCi/g
Waste Soil	Bismuth-212	2.21	29	100	NA	NA	pCi/g
Waste Soil	Bismuth-214	0.866	29	100	NA	NA	pCi/g
Waste Soil	Cesium-134	0.00	26	100	NA	NA	pCi/g
Waste Soil	Potassium-40	26.5	29	100	NA	NA	pCi/g
Waste Soil	Lead-212	1.86	29	100	NA	NA	pCi/g
Waste Soil	Lead-214	1.01	29	100	NA	NA	pCi/g
Waste Soil	Polonium-210	6,820.00	29	100	NA	NA	pCi/g
Waste Soil	Radium bromide	3.71	29	100	NA	NA	pCi/g
Waste Soil	Thalium-208	0.577	29	100	NA	NA	pCi/g
Waste Soil	Uranium-235	0.31	27	100	113	24	pCi/g
Waste Soil	Uranium-238	3.46	28	100	506	103	pCi/g

2.9 No Longer Representative Sampling Locations

The map and listing of NLR sampling locations is shown in Table 11 and on Figure 16.

Table 11
No Longer Representative Sampling Locations

	RD Project g Locations	•	C 123 HDD Pa ampling Locat	•
2	33-11	GP-1-1	GP3-7	HDD-3-05
5	34-12	GP-1-2	GP3-9	HDD-4-01
10	35-13	GP-1-3	GP-4-4	HDD-4-02
11	36-14	GP-1-4	GP-4-6	HDD-4-03
14	37-15	GP-2-3	HDD-2-01	HDD-4-4
23-1	38-16	GP-2-4	HDD-2-02	HDD-4-06
24-2	39-17	GP-2-6	HDD-2-03	LAB1
25-3	40-18	GP-2-8	HDD-2-04	LAB2
26-4	42-20	GP-2-10	HDD-2-05	SP1
27-5	44-22	GP-2-11	HDD-2-06	SP2
28-6	45-23	GP-2-13	HDD-2-07	SP3
29-7	46-25	GP3-2	HDD-2-08	SP4
30-8	47-25	GP-3-4	HDD-3-02	WPS-2
31-9	48-26	HDD-4-05	HDD-3-03	WPS-3
32-10			HDD-3-04	WPS-4

HDD Horizontal Directional Drilling

D&D Deactivation and Decommissioning

3.0 POST-REMEDIATION CONDITIONS

Post remediation conditions for each IHSS, PAC, and UBC at IHSS Group 100-4 are described below.

3.1.1 UBC 123, Radiological Health Physics Laboratory

Building 123 slab, footers, source pit, and manholes were excavated and packaged for disposal or if appropriate, recycled in accordance with the RSOP for Recycling Concrete (DOE 1999a). Sumps and process waste lines were excavated and packaged for disposal. Confirmation sampling results from the soil beneath the slab, footers, source pit, manholes, sumps and process waste lines indicated that all contaminant concentrations were less than RFCA Tier II ALs and proposed WRW ALs.

3.1.2 IHSS 100-148, Waste Leaks

Sumps and process waste lines within IHSS 100-148 were excavated and packaged for disposal. Confirmation sampling results from the soil beneath the sumps and process waste lines indicated that all contaminant concentrations were less than RFCA Tier II ALs and proposed WRW ALs.

3.1.3 PAC 100-603, Bioassay Waste Spill

PAC 100-603 was approved as a No Further Action (NFA) site in 2002. A description of this PAC is contained in the Annual Update for the Historical Release Report (DOE 2001c).

3.1.4 PAC 100-611, Building 123 Scrubber Solution Spill

Five surface soil samples were collected and analyzed for pH at PAC 100-611. Sampling results indicated that remediation was not required.

3.1.5 Residual Contamination

Residual contaminant concentrations greater than background plus two standard deviations or MDLs, consisting of confirmation sampling locations, backfill, and pre-accelerated action sampling locations that were not remediated, at IHSS Group 100-4 are presented on Table 12 and shown on Figure 17. Figure 17 also presents the surface and subsurface soil AOCs and RFCA Tier II exceedances. Table 13 presents the survey data, depth, and additional soil cover information for locations with residual contamination.

Pipelines that were not removed during the accelerated action are shown on Figure 18. The pipeline extending east and then north from MH-3 was not removed. This cast iron pipeline, part of P-2, is approximately 5 feet below the surface. The pipeline end was sealed with Sika Grout 212. The pipeline extending south from MH-2 was not removed. This cast iron pipeline, part of P-1, is approximately 5 feet below the surface. The pipeline end was sealed with Sika Grout 212. This pipeline extends through PAC 100-602 to Valve Vault 18.

Additional removal actions beyond ER RSOP Notification #IA-02-01 accelerated action goals (DOE 2002b) were not required at IHSS 100-4 because of the following:

Residual radionuclide activities in subsurface soil were less than RFCA Tier II ALs,
 proposed WRW ALs, and only slightly greater than background plus two standard deviations

Table 12 **Residual Contamination at IHSS Group 100-4**

T 42	Residual Conta				D	MOT
Location	Analyte	Media	Residual	Units	Background	MDL
			Concentration	1	Plus Two	
•			Spanist Car St		Standard	* .
					Deviations	
BU38-0005	Americium-241	Subsurface Soil	0.05	pCi/g	0.02	NA
BU39-0004	Americium-241	Subsurface Soil	0.08	pCi/g	0.02	NA
Eastern Process Line	Americium-241	Subsurface Soil	0.13	pCi/g	0.02	NA
Eastern Process Line	Plutonium-239/24	Subsurface Soil	0.06	pCi/g	0.02	NA
Northern Process Line	Plutonium-239/24	Subsurface Soil	0.11	pCi/g	0.02	NA
SS306893	Americium-241	Surface Soil	0.03	pCi/g	0.02	NA
SS306793	Americium-241	Surface Soil	0.12	pCi/g	0.02	NA
	Beryllium	Surface Soil	1.20	mg/kg	0.97	NA
	Cobalt	Surface Soil	28.70	mg/kg	10.91	NA
SS307093	Americium-241	Surface Soil	0.03	pCi/g	0.02	NA
	Copper	Surface Soil	25.10	mg/kg	18.06	NA
	Lead	Surface Soil	152.00	mg/kg	54.62	NA
	Plutonium-239/240	Surface Soil	0.16	pCi/g	0.02	NA
	Zinc	Surface Soil	113.00	mg/kg	73.76	NA
SS307293	Cobalt	Surface Soil	11.30	mg/kg	10.91	NA
	Americium-241	Surface Soil	0.05	pCi/g	0.02	NA
SS307393	Americium-241	Surface Soil	0.03	pCi/g	0.02	NA
	Copper	Surface Soil	22.70	mg/kg	18.06	NA
	Lead	Surface Soil	128.00	mg/kg	54.62	NA
	Plutonium-239/240	Surface Soil	0.17	pCi/g	0.02	NA
	Zinc	Surface Soil	134.00	mg/kg	73.76	NA
SS307593	Americium-241	Surface Soil	0.02	pCi/g	0.02	NA
	Lead	Surface Soil	165.00	mg/kg	54.62	NA
	Zinc	Surface Soil	85.50	mg/kg	73.76	NA
SS307693	Americium-241	Surface Soil	0.19	pCi/g	0.02	NA
	Barium	Surface Soil	203.00	mg/kg	141.26	NA
	Copper	Surface Soil	19.80	mg/kg	18.06	NA
	Strontium	Surface Soil	94.70	mg/kg	48.94	NA
	Uranium-238	Surface Soil	2.14	pCi/g	2.00	NA
	Zinc	Surface Soil	133.00	mg/kg	73.76	NA



Location	Analyte	Media	Residual	Units	Background	MDL
			Concentration	3 1, 1,	Plus Two	•
	·			1	Standard	
					Deviations	
HDD-2-07	Acetone	Subsurface Soil	23	μg/kg	NA	13
	Methylene Chloride	Subsurface Soil	25	μg/kg	NA	6
	bis(2-Ethylhexyl)phthalate	Subsurface Soil	1200	μg/kg	NA	340
	Copper, Total	Subsurface Soil	182	μg/kg	38.21	0.10
1	Methylene Chloride	Subsurface Soil	7.00	μg/kg	NA	6
11	Acetone	Subsurface Soil	30.00	μg/kg	NA	13
	Napthalene	Subsurface Soil	13.00	μg/kg	NA	11
12	1,2,4-Trichlorobenzene	Subsurface Soil	6.00	μg/kg	NA	5
	Acetone	Subsurface Soil	69.00	μg/kg	NA	5
	Bis(2-Ethylhexyl)phthalate	Subsurface Soil	50.00	μg/kg	NA	10
	Methylene Chloride	Subsurface Soil	34.00	μg/kg	NA	5
	Napthalene	Subsurface Soil	13.00	μg/kg	NA	11
	Uranium-235	Subsurface Soil	0.20	pCi/g	0.12	NA
13	Carbon Tetrachloride	Subsurface Soil	11.00	μg/kg	NA	6 .
	Methylene Chloride	Subsurface Soil	34.00	μg/kg	NA	5
	Napthalene	Subsurface Soil	16.00	μg/kg	NA	11
16	Acetone	Subsurface Soil	6.00	μg/kg	NA	5
	Benzo(a)pyrene	Subsurface Soil	760.00	μg/kg	NA	730
	Fluoranthene	Subsurface Soil	1500.00	μg/kg	NA	730
	Pyrene	Subsurface Soil	1300.00	μg/kg	NA	730
17	Acetone	Subsurface Soil	8.00	μg/kg	NA	6
	Plutonium-239/240	Subsurface Soil	0.03	pCi/g	0.02	NA
18	Acetone	Subsurface Soil	18.00	μg/kg	NA	5
	Fluoranthene	Subsurface Soil	1200.00	μg/kg	NA	710
	Napthalene	Subsurface Soil	10.00	μg/kg	NA	5
	Plutonium-239/240	Subsurface Soil	0.09	pCi/g	0.02	NA
	Pyrene	Subsurface Soil	1100.00	μg/kg	NA	710
19	Napthalene	Subsurface Soil	10.00	μg/kg	NA	5
20	Acetone	Subsurface Soil	99.00	μg/kg	NA	6
21	Plutonium-239/240	Subsurface Soil	0.13	pCi/g	0.02	NA
22	Americium-241	Subsurface Soil	0.10	pCi/g	0.02	NA
3	Americium-241	Subsurface Soil	0.10	pCi/g	0.02	NA

02E0022-003

Uranium-238

Location	Analyte	Media	Residual Concentration	Units	Background Plus Two Standard Deviations	MDL
	Fluoranthene	Subsurface Soil	410.00	μg/kg	NA	360
	Pyrene	Subsurface Soil	420.00	μg/kg	NA	360
4	Fluoranthene	Subsurface Soil	480.00	μg/kg	NA	350
	Pyrene	Subsurface Soil	540.00	μg/kg	NA	350
8	Fluoranthene	Subsurface Soil	. 810.00	μg/kg	NA	370
	Pyrene	Subsurface Soil	740.00	μg/kg	NA	370
02E0022-002	Uranium-235	Subsurface Soil	0.11	pCi/g	0.09	NA
02E0008-014	Americium-241	Subsurface Soil	0.04	pCi/g	0.02	0.03
02E0008-017	Americium-241	Subsurface Soil	0.06	pCi/g	0.02	0.06
02E0010-007	Americium-241	Subsurface Soil	0.07	pCi/g	0.02	0.06
02E0022-003	Uranium-235	Subsurface Soil	0.15	pCi/g	0.09	NA

Subsurface Soil

2.14

pCi/g

2.00

NA

Table 13
Residual Contamination Location Information

Location	Easting	Northing	Depth Depth	Additional Cover
Docution	Dusting	Tiorthing	(ft)	Auditional Cover
SS306893	2081750.00	749027.00	Surface Soil	Covered with approximately 5 inches of topsoil, revegetated
SS306793	2081660.00	749013.00	Surface Soil	Covered with approximately 5 inches of topsoil, revegetated
S\$307093	2081780.00	749093.00	Surface Soil	NA
				
SS307293	2081690.00	749165.00	Surface Soil	Covered with approximately 5 inches of topsoil, revegetated
SS307393	2081780.00	749158.00	Surface Soil	Covered with approximately 5 inches of topsoil, revegetated
SS307593	2081680.00	749261.00	Surface Soil	NA
SS307693	2081770.00	749260.00	Surface Soil	· NA `
SS307693	2081770.00	749260.00	Surface Soil	NA
HDD-2-07	2081727.77	749133.00	5.2	Covered with approximately 5 inches of topsoil, revegetated
1	2081785.70	749247.70	0.0-6.0	NA
11	2081663.90	749050.30	0.0-6.0	Covered with approximately 5 inches of topsoil, revegetated
12	2081682.40	748994.60	0.0-6.0	NA
13	2081682.40	749082.10	0.0-6.0	Covered with approximately 5 inches of topsoil, revegetated
16	2081605.60	749165.00	0.0-6.0	NA
17	2081607.40	749199.60	0.0-6.0	NA
18	2081688.20	749232.30	0.0-6.0	NA
19	2081725.50	749231.40	0.0-6.0	Covered with approximately 5 inches of topsoil, revegetated
20	2081713.00	749117.40	0.0-6.0	Covered with approximately 5 inches of topsoil, revegetated
21	2081682.70	749127.20	. 0.0-6.0	Covered with approximately 5 inches of topsoil, revegetated
22	2081608.60	749004.00	0.0-6.0	NA
3	2081800.20	749126.30	0.0-6.0	NA
4	2081784.50	749146.50	0.0-6.0	NA
8	2081776.90	749101.30	0.0-6.0	NA
HDD-2-01	2081726.65	749224.34	3.9	Covered with approximately 5 inches of topsoil, revegetated
BU38-0005	2081653.00	749090.00	2.5 – 4.5	Covered with approximately 5 inches of topsoil, revegetated,
BU39-0004	2081677.00	749195.00	2.5 – 4.5	Covered with approximately 5 inches of topsoil, revegetated
Eastern Process Line	2081731.00	749132.00	2.5 - 4.5	Covered with approximately 5 inches of topsoil, revegetated
Northern Process Line	2081664.00	749196.00	2.5 – 4.5	Covered with approximately 5 inches of topsoil, revegetated

- Residual lead concentrations in subsurface soil were less than Tier II ALs, proposed WRW ALS, and only slightly greater than background plus two standard deviations. Residual lead concentrations are slightly greater than proposed ecological ALs.
- Residual SVOC concentrations were less than Tier II ALs, proposed WRW ALs, and only slightly greater than MDLs, and the Tier II SOR was less than 1.
- Radionuclide activities in surface soil were less than Tier II ALs, proposed WRW ALs, and only slightly greater than background plus two standard deviations (DOE 2002b).
- Beryllium was detected at 0.16 mg/kg greater than the RFCA Tier II AL in surface soil at only one location outside of UBC 123, IHSS 148, and PAC 100-611 but within the AOC. This result was less than the MDL. Additionally, this location was covered with approximately 6 inches of soil and revegetated.
- Methylene chloride concentrations in subsurface soil, outside of UBC 123, IHSS 148, and PAC 100-611 but within the AOC, were greater than the RFCA Tier II AL at six locations. Methylene chloride was found in laboratory blanks associated with the data set and the results are likely due to laboratory contamination. Methylene chloride does not pose a significant risk at these concentrations.

4.0 STEWARDSHIP EVALUATION

The IHSS Group 100-4 stewardship evaluation was conducted through ongoing consultation with the regulatory agencies. Frequent informal project updates, e-mails, telephone and personal contact occurred throughout the project. Documentation associated with these contacts is provided in Appendix C.

4.1 Current Site Conditions

As discussed in Section 2.0, the accelerated action at IHSS Group 100-4 consisted of removal of slabs, footers, and utilities, and soil with metal contaminant concentrations greater than Tier I ALs. Section 3.0 presents residual contamination information.

The following conditions currently exist at IHSS Group 100-4:

- Potential sources of contamination that existed at IHSS Group 100-4 (building slab, source pits, process waste lines, and sumps) were removed.
- Residual radionuclide activities in subsurface soil are slightly greater than background plus two standard deviations.
- Residual lead concentrations in subsurface soil are slightly greater than background plus two standard deviations.
- Residual SVOC concentrations are slightly greater than MDLs, and the Tier II SOR is less than 1.
- Radionuclide activities in surface soil are slightly greater than background plus two standard deviations (DOE 2002b).

- Beryllium was detected at 0.16 mg/kg greater than the RFCA Tier II AL in surface soil at
 only one location outside of UBC 123, IHSS 148, and PAC 100-611 but within the AOC.
 This result was less than the MDL. Additionally, this location was covered with
 approximately 6 inches of soil and revegetated.
- Methylene chloride concentrations in subsurface soil, outside of UBC 123, IHSS 148, and PAC 100-611 but within the AOC, are greater than the RFCA Tier II AL but less than proposed WRR and ecological ALs at six locations. Methylene chloride was found in laboratory blanks associated with the data set and the results are likely due to laboratory contamination. Methylene chloride does not pose a significant risk at these concentrations.
- The pipeline extending east and then north from MH-3 was not removed. This cast iron pipeline, part of P-2, is approximately 5 feet below the surface. The pipeline end was sealed with Sika Grout 212. The pipeline extending south from MH-2 was not removed. This cast iron pipeline, part of P-1, is approximately 5 feet below the surface. The pipeline end was sealed with Sika Grout 212. This pipeline extends through PAC 100-602 to Valve Vault 18.
- The site was covered with approximately 6 inches of clean soil and regraded.
- The site was revegetated.

4.2 Near Term Management Recommendations

Because residual contaminant concentrations are low and potential contaminant sources were removed, mitigated or found not to have existed, no specific near-term management techniques are required. Potential contaminant sources and pathways have been removed. Contaminant concentrations in soil remaining at IHSS Group 100-4 do not trigger any further accelerated action. Excavation at the site will continue to be controlled through the Site Soil Disturbance Permit process. Fencing and signs restricting access will be posted to minimize disturbance to newly-revegetated areas. Site access and security controls and the Soil Disturbance Permit process will remain in place pending implementation of long-term controls.

4.3 Long-Term Stewardship Recommendations

Based on remaining environmental conditions at IHSS Group 100-4, no specific long-term stewardship activities are recommended for IHSS Group 100-4 beyond the generally applicable Site requirements that may be imposed on this area in the future, which are dependent upon the final remedy selected. Institutional controls that will be used as appropriate for this area include the following:

- Prohibitions on construction of buildings in the IA;
- Restrictions on excavation or other soil disturbance; and
- Prohibitions on groundwater pumping in the area of IHSS Group 100-4.

No specific engineered controls are recommended as a result of the conditions remaining in IHSS Group 100-4; and

No specific environmental monitoring is recommended as a result of the environmental conditions remaining in IHSS Group 100-4.

No specific institutional or physical controls, such as fences, are recommended as a result of the environmental conditions remaining in IHSS Group 100-4.

This closeout report and associated documentation will be retained as part of the Rocky Flats administrative record file. These specific long-term stewardship recommendations will also be summarized in the Rocky Flats *Long-Term Stewardship Strategy*.

IHSS Group 100-4 will be evaluated as part of the Sitewide CRA, which is part of the RFI/RI and Corrective Measures Study/Feasibility Study (CMS/FS) that will be conducted for the Site. The need for and extent of any, more general, long-term stewardship activities will also be analyzed in RFI/RI and CMS/FS and will be proposed as part of the preferred alternative in the Proposed Plan for the Site. Institutional controls and other long-term stewardship requirements for Rocky Flats will ultimately be contained in the Corrective Action Decision/Record of Decision (CAD/ROD), in any post-closure Colorado Hazardous Waste Act permit that may be required, and in any post-RFCA agreement.

4.4 Accelerated Action Stewardship

Stewardship actions that were implemented during the accelerated action included posting signs and barriers, including yellow chain and jersey barriers.

5.0 DATA QUALITY ASSESSMENT

The DQOs for this project, as defined in the IASAP (DOE 2001a), were achieved based on the DQA provided in the following sections. The DQO/DQA process ensures that the type, quantity, and quality of environmental data used in decision making are defensible, with emphasis on attaining adequate (statistical) confidence in the decisions. The DQO/DQA process is based on the following guidance and requirements:

- EPA QA/G-4, 1994. Guidance for the Data Quality Objective Process (EPA 1994a);
- EPA QA/G-9, 1998. Guidance for the Data Quality Assessment Process; Practical Methods for Data Analysis (EPA 1998); and
- DOE Order 414.1A, Quality Assurance (DOE 1999b)

Verification and validation (V&V) of the data are the primary components of the DQA. The final data are compared with original project DQOs and evaluated with respect to project decisions; uncertainty within the decisions; and quality criteria required for the data, specifically precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS). Validation criteria are consistent with the following RFETS-specific documents and industry guidelines:

- EPA 540/R-94/012, USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (EPA 1994b);
- EPA 540/R-94/013, USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (EPA 1994c); and
- Kaiser-Hill Company, L.L.C.(K-H) V&V Guidelines
 - General Guidelines for Data Verification and Validation, DA-GR01-v1, December 3, 1997
 - V&V Guidelines for Isotopic Determinations by Alpha Spectrometry, DA-RC01-v1, 2/13/98

- V&V Guidelines for Volatile Organics, DA-SS01-v1, 12/3/97
- V&V Guidelines for Semivolatile Organics, DA-SS02-v1, 12/3/97
- V&V Guidelines for Metals, DA-SS05-v1, 12/18/97
- Lockheed-Martin, 1997, Evaluation of Radiochemical Data Usability, ES/ER/MS-5.

This report will be submitted to the Comprehensive Environmental, Response, Compensation and Liability Act (CERCLA) Administrative Record (AR) for permanent storage within 30 days of approval by CDPHE and/or the U.S. Environmental Protection Agency (EPA).

5.1 DQO Decisions

Consistent with the original DQO decision rules of the project, SOR calculations were conducted for each sample location using confirmation results. In accordance with the DQOs, if the SOR for radiological or nonradiological constituents does not exceed 1 then no further action is required. As shown in Section 2.3, SORs were below 1 and no further action is required.

5.2 Verification and Validation of Results

Verification ensures that data produced and used by the project are documented and traceable in accordance with quality requirements. Validation consists of a technical review of all data that directly support the project decisions so that any limitations of the data relative to project goals are delineated and the associated data are qualified accordingly. The V&V process defines the criteria that constitute data quality, namely PARCCS parameters. Data traceability and archival are also addressed. V&V criteria include the following:

- Chain-of-custody;
- Preservation and hold-times:
- Instrument calibrations:
- Preparation blanks;
- Interference check samples (metals);
- Matrix spikes/matrix spike duplicates (MS/MSD);
- Laboratory control samples (LCS);
- Field duplicate measurements;
- Chemical yield (radiochemistry);
- Required quantitation limits/minimum detectable activities (sensitivity of chemical and radiochemical measurements, respectively); and
- Sample analysis and preparation methods.

V&V results of electronic data are documented in the ER Remediation, Industrial D&D, and Site Services (RISS) Project File as "PlanvsActuals2.mdb" in Microsoft ACCESS).

Precision

Precision of results was acceptable with the qualifications discussed below, based on the frequency and results of duplicate Quality Control (QC) samples.

Laboratory precision was acceptable based on the frequency of MSD and laboratory duplicates (LDs) analyzed (≥1/laboratory batch, or ≥1:20 QC-to-real sample ratio), and the resulting relative percent difference (RPD) values resulting from those analyses (one exception was aluminum, at 48% RPD, in laboratory batch 2050380, but this does not affect project decisions). Maximum RPD values were typically <15%; the DQO is <30% for soil matrices.

Field sampling precision was adequate for radionuclides, but was indeterminate for nonradionuclides. Eleven field duplicates were analyzed for radiological constituents (seven for gamma spectroscopy and four for alpha spectroscopy). Precision was adequate based on repeatability of both field duplicate and real sample results to quantities well below associated RFCA ALs. No field duplicates were acquired for nonradiological samples, though all corresponding real results (Completeness) were repeatable at levels well below RFCA Tier II ALs. Based on the overall low concentrations as compared with ALs, there is no impact on decisions.

Accuracy and Bias

Location measurements recorded on maps are within ± 1 ft, based on the Global Positioning System (GPS) technology in use (Trimble 4800 Series). Location measurements in trenches were offset, and the measurement was recalculated. Several confirmation sampling locations were not measured but were hand plotted and estimated.

The frequency of LCS was adequate, with at least one LCS per batch, though the lists of analytes were short for all methods except SW6010 (metals), where a complete list of analytes was used; likewise for MS. All LCS recoveries, for all chemical (nonradiological) analytes, were between 66% and 112%, which is within associated QC tolerances.

MS recoveries ranged from 37% to 121% with exceptions consisting of one iron and one silica (<16%), one 1,1-dichloroethene (171%), and one aluminum (928%). None of the out-of-specification occurrences impact decisions, as the magnitude of the low bias would not cause AL exceedances if results were corrected accordingly; positive biases did not cause false positives in the real samples. Chlorobenzene is qualified as an estimate for sample 02E0010-026.002, and may be biased low due to an MS recovery of 37% (the lower control limit is ~75%) for the associated laboratory batch.

Frequency of blank analyses (method blanks) was adequate at ≥1/laboratory batch for all chemical analyses. Blanks yielded no concentrations significant enough to cause a high bias in the corresponding real samples, i.e., there are no false positive results due to blank contamination.

Representativeness

Surface soil grab samples acquired for the project, are representative based on the number and location of samples acquired, in combination with the following criteria:

- Familiarity with site history and current IHSS configurations and collaborations by management and technical staff;
- Implementation of industry-standard chain-of-custody protocols;

- Compliance with sample preservation and hold times;
- Documented and Site-approved methods, particularly standard operating procedures (SOPs) controlled by the subcontractor; and
- Compliance with CDPHE- and EPA-approved sampling and analysis plans (the IASAP and IASAP Addendum).

Completeness

Sampling completeness is addressed in Table 14. The required minimum numbers of real samples and laboratory QC were acquired. The variance between planned versus actual field duplicates and their impact on decisions was addressed in the Precision section.

A summary of the V&V for all Electronic Data Deliverable (EDD) records, presented in Table 15, indicates no rejection of the data. All estimated values were well less than associated RFCA ALs. Validation of results was completed at the minimum frequency of ≥10% per method and matrix-type, with the exception of radionuclides, where V&V is in progress. However, adequate frequency and performance of LCS for the radiological suites suggests that these data are valid. Note that headers within Table 15 indicate line item codes and generic labels for method types.

Comparability

Results presented are comparable with CERCLA data on a site- and DOE complex-wide basis. This comparability is based on:

- Use of standardized engineering units in the reporting of measurement results;
- Consistent sensitivities of measurements (≤ the required quantitation limit [RQL] or minimum detectable activity [MDA]);
- Use of site-approved procedures (Contractual Statements of Work for laboratory analyses);
- · Systematic quality controls; and
- Thorough documentation of the planning, sampling/analysis process, and data reduction into formats designed for making decisions posed from the project's original data quality objectives.

Sensitivity

Adequate sensitivities, (i.e., detection limits) were attained for most analytes. Exceptions are listed in Tables 14 and 15. Although the listed analytes had detection limits in excess of associated subsurface soil action levels, none of the compounds were detected at or above the detection limit denoted by a "U" flag associated with the results. If a result was a "nondetect" (i.e., flagged as "U" by the laboratory), then it was not included in the SOR calculation. Ideally, detection limits are at least one-half the associated action level for those exceedances listed in Tables 16 and 17 below.

Table 14
IHSS Group 100-4–Sample Completeness Summary

Minimum Number of	Number of Samples Taken	Project Decisions	
Samples Planned (including Media)	(Real and QC)	(Conclusions) & Uncertainty	
	voc		
None	2 real, soil 1 pipe scale	No contamination >RFCA Tier II	
	svoc		
1 soil	3 real, soil	No contamination >RFCA Tier II	
	METALS		
5 soil	2 (full suite), soil, real 5 (lead only), soil, real 1 soil (TCLP), soil 1 pipe scale (TCLP), soil,	No contamination >RFCA Tier II	
· · · · · · · · · · · · · · · · · · ·	рН	,	
1 soil	5, soil, real	All pH results >7; no further evidence of acid spills	
RA	DIOLOGICAL (APLHA SPEC)	
PWLs (trench bottom) - 14 Soil	55 real, soil 4 field duplicates	No contamination >RFCA	
Sumps (excavation bottom) - 4 Source Pit - 2	3 water 4 concrete	Tier II; Water results indeterminate from Laboratory 559 due to high reporting limit	
RA	DIOLOGICAL (GAMMA SPEC	C)	
Sumps (excavation bottom) - 4 Source Pit - 2	69 real, 4 duplicates (soil) 2 concrete	No contamination >RFCA Tier II	
4		1	

Closeout Report for IHSS Groups 100-4 and 100-5

Table 15 IHSS Group 100-4 - Verification & Validation for Electronic Data Deliverable Records

SWD Validation Qualifier Code	Total of CAS Number	ASP-A- 003	ASP-A- 004	ASP-A- 011	MET-A- 023	MET-A- 024	MET-A- 031	MIS-A- 004	RC10B 019	RFAA 005	URS10B 019	URS10B 19	VOAA 011	VOAA 011	SVO-A 007
			Alpha Spec			Metals		Corrosivity		Gamm	a Spec		'	/OC	SVOC
Null	2004	5	270	3	70	3	.38	1	.439	19	510	207	345	82	12
1	23							1					8	8	6
J	16			2	12		2								
V	220	10		4	34	4	. 4			38					126
VI	326							4					134	126	62
JB1	3													2	l
UJ	17				9		2								6
UII	3														3
Total	2612	15	270	9	125	7	46 .	6	439	38	510	207	487	218	216
% Validated	23%	5%	0%	%	38%	%		83%	3%	100%	%		39%		94%

Table 16
IHSS Group 100-4 Analytes with Detection Limits Exceeding Tier I Action Levels

CAS Number	Analyte Name	Reporting Limit (µg/kg)	Tier I AL (µg/kg)
121-14-2	2,4-Dinitrotoluene	100	5.01E+01
606-20-2	2,6-Dinitroltoluene	100	3.88E+01
111-44-4	Bis(2-Chloroethyl) Ether	52	9.73E+00
621-64-7	N-Nitroso-di-n-propylamine	94	1.89E+00

Table 17
IHSS Group 100-4 Analytes with Detection Limits Exceeding Tier II Action Levels

CAS Number		Reporting Limit (µg/kg)	Tier II (µg/kg)
51-28-5	2,4-Dinitrophenol	520	5.29E+01
121-14-2	2,4-Dinitrotoluene	100	5.01E-01
606-20-2	2,6-Dinitrotoluene	100	3.88E-01
91-94-1	3,3'-Dichlorobenzidine	73	4.84E+00
91-94-1	3,3'-Dichlorobenzidine	75	4.84E+00
7440-38-2	Arsenic	3,400	2.99E+03
111-44-4	Bis(2-Chloroethyl) ether	51	9.73E-02
621-64-7	N-nitroso-di-n-propylamine	92	1.89E-02
98-95-3	Nitrobenzene	91	5.39E+01
87-86-5	Pentachlorophenol	400	2.11E+01

5.3 Data Quality Summary

The data presented in this section have been verified and validated for the purpose of corroborating decisions to acceptable levels of confidence as stated in the original DQOs for this project. Qualifications of the data are described above.

6.0 IHSS GROUP 100-5 ACTIVITIES

IHSS Group 100-5 consists of PAC 100-609, the security incinerator. The security incinerator was located south of Building 121 and was used for incineration of classified documents. The location of IHSS Group 100-5 is shown in Figure 1. During some period in its operating history, the incinerator was used to burn no carbon required (NCR)-type paper containing polychlorinated biphenyls (PCBs), which could have resulted in the generation of dioxins and furans. It is known that ash from the incinerator ash was being disposed at the Present Landfill (PAC NW-114) in December 1980. It is not known whether this was standard practice throughout the incinerator's operating history. According to one source, "tons" of NCR paper, containing up to 10% to 20% PCBs, was burned in the incinerator.

6.1 Site Characterization

As described in IASAP Addendum #IA-02-01 (DOE 2001b), PCOCs at IHSS Group 100-5 were determined based on historical knowledge (DOE 1992). PCOCs at this site are dioxins, furans, and PCBs. Surface soil samples were collected from six sampling locations beneath the concrete slab and analyzed. Sampling specifications are shown in Table 18, and results are shown in Table 19.

6.2 Accelerated Action Description

Accelerated action activities including a description of the AOC and removal activities are described below.

6.2.1 Area of Concern

The AOC, shown on Figure 19, was determined based on analytical results from IASAP Addendum #IA-02-01 (DOE 2001b) sampling. The AOC is defined as the area with concentration of contaminants greater than MDLs. The AOC map also illustrates the limits of RFCA Tier II and Tier I AL exceedances for PCBs. Because there are no existing RFCA ALs for dioxin and furan or congeners, a different framework was used for comparison of analytical results. Both EPA cleanup guidelines (EPA 1998) for residential and industrial use (in accordance with RFCA) and a reference value of 9 parts per trillion (ppt) toxicity equivalents (TEQ) (consultative process) were used for comparison. Results for dioxin and furan congeners were converted to TEQ using a toxicity equivalency factor (TEF) in accordance with SW8290 (EPA 1994d) and a recent World Health Organization (WHO) study (WHO 1998).

The TEF for each compound is presented in Table 20. The TEQ values for dioxin congeners are summed for each sampling location and the TEQ values for furan congeners were summed for each sampling location. These data are presented in Table 21. As shown on Table 21 there are no exceedances of the 9 ppt TEQ for the summed dioxin compounds. Results at one location, BT39-003, indicate a value of 10.87 ppt for the summed dioxin and furan congeners. While this value is slightly greater than the reference value of 9 ppt TEQ it as well as all other summated TEQ values are well within the cited Front Range background range of 0.1 to 57.5 ppt TEQ (EPA 2001). Additionally, the maximum 2,3,7,8-TCDD TEQ of 6.8 ppt was less than the 9 ppt TEQ value.

Additionally, as shown on Figure 20, there are no concentrations greater than RFCA Tier II, Tier I, or proposed WRW or ecological ALs (PCBs) or EPA cleanup guidelines. SOR calculations are based on PCB results. The Tier II SOR calculation results for nonradionuclides are presented on Figure 21. Dioxin and furan congeners do not have proposed RFCA ALs.



Table 18

IHSS Group 100-5, PAC 100-609-Characterization Sampling Specifications

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval Beneath Slabs (ft)	Analyte	Laboratory Method
100-5	PAC 100-609 – Security Incinerator	BT38-A001	2081396	749167	Surface Soil	0.0-0.5	Dioxin and Furan	8290
		BT38-A001	2081396	749167	Surface Soil	0.0-0.5	PCBs	8082
		BT38-A002	2081406	749165	Surface Soil	0.0-0.5	Dioxin and Furan	8290
		BT38-A002	2081406	749165	Surface Soil	0.0-0.5	PCBs	8082
		BT39-A001	2081397	749170	Surface Soil	0.0-0.5	Dioxin and Furan	8290
		BT39-A001	2081397	749170	Surface Soil	0.0-0.5	PCBs	8082
		BT39-A002	2081406	749170	Surface Soil	0.0-0.5	Dioxin and Furan	8290
		BT39-A002	2081406	749170	Surface Soil	0.0-0.5	PCBs	8082
		BT39-A003	2081400	749164	Surface Soil	0.0-0.5	Dioxin and Furan	8290
		BT39-A003	2081400	749164	Surface Soil	0.0-0.5	PCBs	8082
		BT39-A004	2081402	749170	Surface Soil	0.0-0.5	Dioxin and Furan	8290
		BT39-A004	2081402	749170	Surface Soil	0.0-0.5	PCBs	8082

20/20

Table 19

IHSS Group 100-5, PAC 100-609-Characterization Data Summary

IHSS	IHSS/PAC/UBC Site	Analyte	Maximum		Tier II AL	Tier I AL
Group			(µg/kg)	(µg/kg)	(μ g/kg)	_ (μg/kg)
100-5	100-609 – Security Incinerator	Aroclor-1016	19.5	<.069	224,000	2,240
		Aroclor-1221	ND	<.069	224,000	2.240
		Aroclor-1232	ND	<.069	224,000	2,240
		Aroclor-1242	23	<.069	224,000	2,240
		Aroclor-1248	42	<.069	224,000	2,240
ļ.		Aroclor-1254	30	<.069	224,000	2,240
Ì	,	Aroclor-1260	17.5	<.069	224,000	2,240
ĺ	·	Analyte	Maximum	RDL	EPA	EPA
			(pg/g)	(pg/g)	Residential Cleanup Guidance (pg/g)	Industrial Cleanup Guidance (pg/g)
	·	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	33	<.22	1,000	5,000
		1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	6.2	<.22	1,000	5,000
1		1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	0.34	<.22	1,000	5,000
		1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.23	<.22	1,000	5,000
ŀ		1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	1.5	<.22	1,000	5,000
]		1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	1.2	<.22	1,000	5,000
		1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	1.2	<.22	1,000	5,000
		1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	1.2	<.22	1,000	5,000
		1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	1.2	<.22	1,000	5,000
	•	1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	0.82	<.22	1,000	5,000
		1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	4.3	<.22	1,000	5,000
		2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.82	<.22	1,000	5,000
		2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	1.9	<.22	1,000	5,000
	-	2,3,7,8-Tetrachlorodibenzofuran (TCDF)	12	<.22	1,000	5,000
		2,3,7,8,-Tetrachlorodibenzodioxin (TCDD)	6.8	<.22	1,000	5,000
		1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	290	<.22	1,000	5,000
	,	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	16	<.22	1,000	5,000

Table 20
IHSS Group 100-5–Toxicity Equivalent Comparison

1125 Group 100 5 Toxicity Equivalent Com	Jul 15011
Analyte .	TEF
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	0.01
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	0.01
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	0.01
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.10
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	0.10
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.10
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.10
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	0.10
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	0.10
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	1.00
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	0.05
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.10
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	0.50
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	0.10
2,3,7,8,-Tetrachlorodibenzodioxin (TCDD)	1
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	.0001
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	.0001

Table 21
Summed TEQs by Sample Location

Sampling Location	Summed CDD TEQs (ppt)	Summed CDF TEQs (ppt)	Summed CDD and CDF TEQs (ppt)
BT38-001	6.60	0.96	7.56
BT38-002	4.42	0.61	1.03
BT39-001	4.30	0.93	5.23
BT39-002	2.35	0.29	2.64
BT39-003	8.06	2.81	10.87
BT39-004	1.95	0.90	2.85

In accordance with the IASAP (DOE 2001a), the AOC based on characterization data becomes the revised PAC shape. This change will be archived through the Site Geographic Information Services Group.

The accelerated action objectives were developed and described in ER RSOP Notification #02-01 (DOE 2002b). The accelerated action objectives for IHSS Group 100-5 included the following:

- Remove the concrete slabs, which will be dispositioned in accordance with the RSOP for Concrete Recycling (DOE 1999a); and
- Remediate soil if dioxins or furans are found at levels greater than MDLs or a level agreed upon through the RFCA consultative process.

Remediation activities were conducted between March 6 and April 1, 2002. Dates and durations of significant activities are listed in Table 22.



Table 22
Dates and Duration of Accelerated Action Activities

Activity	Start Date	End Date	Duration
Remove incinerator slabs	March 6, 2002	March 6, 2002	1 Day
Characterization sampling at PAC 100-609	March 7, 2002	March 7, 2002	1 Day
Site reclamation	March 21, 2002	April 1, 2002	1 Day

Photographs of site activities are provided in Appendix A.

6.2.2 Removal Activities

Concrete Slabs

The two slabs at IHSS Group 100-5 were removed using a forklift after a corner of the slab was broken up sufficiently with a jackhammer to gain access to the underlying soil. The main slab was 20 inches thick. One composite sample was collected from the concrete for waste characterization. The sample was analyzed for metals, dioxins, and furans. The concrete slabs were surveyed for radiological constituents and recycled in accordance with the RSOP for Recycling Concrete (DOE 1999a).

Soil Removal

Because all analytical results indicated that dioxin and furan concentrations were less than EPA cleanup guidelines for residential use and the TEQ of 9 ppt and PCBs were less than RFCA Tier II ALs, no soil was removed. Therefore, confirmation samples were not collected because soil was not remediated. Characterization samples were analyzed at an offsite laboratory and also serve as confirmation samples.

6.3 Deviations from the ER RSOP

Deviations from the ER RSOP include the following:

- Dioxin and furan concentrations were compared to EPA cleanup guidelines and TEQ because RFCA Tier I and Tier II ALs were not available; and
- IHSS Group 100-5 was not revegetated because the Site security force needed to use this site.

6.4 Waste Management

Waste from the IHSS Group 100-5 consisted of concrete, which was recycled in accordance with the RSOP for Concrete Recycling (DOE 1999a).

6.5 Site Reclamation

IHSS Group 100-5 was covered with approximately 6 to 8 inches of roadbase, wheel-rolled, and compacted with a loader.

7.0 POST-REMEDIATION CONDITIONS

Residual contamination concentrations, MDLs, and EPA cleanup guidelines, at IHSS Group 100-5 are shown in Figure 21.



8.0 STEWARDSHIP EVALUATION

The IHSS Group 100-5 stewardship evaluation was conducted through ongoing consultation with the regulatory agencies. The regulatory agencies were informed through project updates, e-mail, telephone contact, and personal contact throughout the project duration.

8.1 Current Site Conditions

As discussed in Section 6.2.2, accelerated actions at IHSS 100-5 consisted of removal of the Security Incinerator slab. Residual contamination at IHSS Group 100-5 is summarized in Table 19 and shown on Figure 21. Based on the accelerated action the following conditions exist at IHSS Group 100-5:

- PCB concentrations in surface soil are slightly greater than MDL.
- PCB Tier II SORs are less than 1.
- Summed congener concentrations at sampling location BT39-003 were slightly greater than the TEQ of 9 but within the Front Range background range, and significantly less than EPA residential cleanup guidelines.
- Residual congener concentrations at all other locations were less than the TEQ of 9, within the Front Range background range, and EPA residential cleanup guidelines.
- The site was backfilled with the excavated soil and covered with approximately 6 to 8 inches of roadbase.

8.2 Near Term Management Recommendations

Because residual contaminant concentrations are low and potential contaminant sources were removed, mitigated or found not to have existed, no specific near-term management techniques are required. Contaminant concentrations in soil remaining at IHSS Group 100-5 do not trigger any further accelerated action. Excavation at the site will continue to be controlled through the Site Soil Disturbance Permit process. Fencing and signs restricting access will be posted to minimize disturbance to newly-revegetated areas. Site access and security controls and the Soil Disturbance Permit process will remain in place pending implementation of long-term controls.

8.3 Long-Term Stewardship Recommendation

Based on remaining environmental conditions at IHSS Group 100-5, no specific long-term stewardship activities are recommended for IHSS Group 100-5 beyond the generally applicable Site requirements that may be imposed on this area in the future, which are dependent upon the final remedy selected. Institutional controls that will be used as appropriate for this area include the following:

- Prohibitions on construction of buildings in the IA;
- Restrictions on excavation or other soil disturbance; and
- Prohibitions on groundwater pumping in the area of IHSS Group 100-5.

No specific engineered controls are recommended as a result of the conditions remaining in IHSS Group 100-5; and

No specific environmental monitoring is recommended as a result of the environmental conditions remaining in IHSS Group 100-5.

No specific institutional or physical controls, such as fences, are recommended as a result of the environmental conditions remaining in IHSS Group 100-5.

This closeout report and associated documentation will be retained as part of the Rocky Flats administrative record file. These specific long-term stewardship recommendations will also be summarized in the Rocky Flats *Long-Term Stewardship Strategy*.

IHSS Group 100-5 will be evaluated as part of the Sitewide CRA, which is part of the RFI/RI and CMS/FS that will be conducted for the Site. The need for and extent of any, more general, long-term stewardship activities will also be analyzed in RFI/RI and CMS/FS and will be proposed as part of the preferred alternative in the Proposed Plan for the Site. Institutional controls and other long-term stewardship requirements for Rocky Flats will ultimately be contained in the CAD/ROD, in any post-closure Colorado Hazardous Waste Act permit that may be required, and in any post-RFCA agreement.

8.3.1 Accelerated Action Stewardship

Stewardship actions that were implemented during the accelerated action included posting signs and barriers, including yellow chain and jersey barriers.

9.0 DATA QUALITY ASSESSMENT

The DQOs for this project, as defined in the IASAP (DOE 2001a), were achieved based on the DQA provided in the following sections. The DQO/DQA process ensures that the type, quantity, and quality of environmental data used in decision making are defensible, with emphasis on attaining adequate (statistical) confidence in the decisions. The DQO/DQA process is based on the following guidance and requirements:

- EPA QA/G-4, 1994. Guidance for the Data Quality Objective Process (EPA 1994a);
- EPA QA/G-9, 1998. Guidance for the Data Quality Assessment Process; Practical Methods for Data Analysis (EPA 1998); and
- DOE Order 414.1A, Quality Assurance (DOE 1999b).

V&V of the data are the primary components of the DQA. The final data are compared with original project DQOs and evaluated with respect to project decisions; uncertainty within the decisions; and quality criteria required for the data, specifically PARCCS. Validation criteria are consistent with the following RFETS-specific documents and industry guidelines:

- EPA 540/R-94/013, USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (EPA 1994c);
- EPA 540/R-94/012, USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (EPA 1994b);

K-H V&V Guidelines

- General Guidelines for Data Verification and Validation, DA-GR01-v1, December 3, 1997
- V&V Guidelines for Isotopic Determinations by Alpha Spectrometry, DA-RC01-v1, 2/13/98
- V&V Guidelines for Volatile Organics, DA-SS01-v1, 12/3/97
- V&V Guidelines for Semivolatile Organics, DA-SS02-v1, 12/3/97
- V&V Guidelines for Metals, DA-SS05-v1, 12/18/97; and
- Lockheed-Martin, 1997, Evaluation of Radiochemical Data Usability, ES/ER/MS-5.

This report will be submitted to the CERCLA AR for permanent storage within 30 days of approval by CDPHE and/or EPA.

9.1.1 DQO Decisions

Consistent with the original DQO decision rules of the project, SOR calculation was conducted, on sample results as applicable. PCB compounds have corresponding RFCA ALs that allow an SOR to be calculated, whereas the dioxin/furan results do not. In accordance with the DQO decision logic, if the summation for radiological or non-radiological constituents does not exceed 1, then no further action is required. All PCB SORs, per sample, were below 1; therefore, no further action is required relative to PCBs.

Because there are no existing RFCA ALs for dioxin and furan congeners, a different action level framework was used to compare with the dioxin/furan results. An action level of 9 ppt TEQ was used based on the consultative process. Results for the dioxin/furan were converted to TEQ and compared directly with the TEQ of 9 ppt. No individual compounds exceeded this level, and the highest value was 6.8 ppt for dioxin. Calculations are documented in the files "PlanvsActuals2.mdb" and "Dioxin-FuranAnlyRslt.xls" in Microsoft ACCESS.

Sample quantities by analytical method are shown in Table 23.

Table 23
IHSS Group 100-5-Sampling

	IIIDD GIU	up 100-5 Sampi	11118
Analyte	Matrix	EPA Method	Number of Samples (including QC samples)
PCBs	Soil	SW8082	7
Dioxin/Furan	Soil	SW8290	7

9.1.2 Verification and Validation of Results

Verification ensures that data produced and used by the project are documented and traceable per quality requirements. Validation consists of a technical review of project



data that directly support decisions, such that any limitations of the data relative to project goals are stated. V&V criteria include the following:

- Chain-of-custody;
- Preservation and hold-times:
- Instrument calibrations:
- Preparation blanks;
- Interference check samples (metals);
- MSs/MSDs;
- LCSs;
- Field duplicate measurements;
- Chemical yield (radiochemistry);
- RQL/MDA (sensitivity of chemical and radiochemical measurements, respectively);
 and
- Sample Analysis and Preparation methods.

Precision

Precision of field sampling was adequate based on repeatability of both field duplicate and real sample results to quantities well below associated action levels: <9 TEQ for dioxin/furans and <2,240 parts per billion (ppb) for PCBs. Only one field duplicate was necessary based on a set of less than 20 reals (i.e., a required duplicate sample frequency of $\ge5\%$).

Laboratory precision was acceptable based on MS/MSD comparisons, which yielded a maximum relative percent difference of 3%; the DQO is <30% for organics in soils.

Accuracy and Bias

Distance measurements recorded on maps are within ±1 foot, based on the GPS technology in use (Trimble 4800 Series). LCSs and MSs were analyzed at an adequate frequency (≥1/laboratory batch) and were within QC tolerances. For LCS, minimum recoveries were 66% for Aroclor-1016 and 74% for 123789-HXCDD; for MS, minimum recoveries were 77% for Aroclor-1260 and 72% for 1234789-HPCDF.

Blanks yielded no concentrations significant enough to cause a high bias in the corresponding real samples, i.e., there are no false positive results due to blank contamination.

Representativeness

Surface soil grab samples acquired for the project, are representative based on the number and location of samples in combination with the following criteria:

- Familiarity with site history and current IHSS configurations;
- Collaborations by management and technical staff;
- Implementation of industry-standard Chain-of-Custody protocols;
- Compliance with sample preservation and hold times;
- Documented and Site-approved methods, particularly SOPs controlled by the subcontractor; and
- Compliance with state- and EPA-approved sampling and analysis plans including the IASAP and associated SAP Addenda.

Completeness

Sampling completeness is addressed in Table 24. The required minimum numbers of QC and real samples were acquired.

Table 24
IHSS Group 100-5-Sample Completeness Summary

Number of Samples Planned (Media; Real, and QC)	Number of Samples Taken (Real and QC)	Project Decisions (Conclusions) and Uncertainty
6 real 1 duplicate	7 (total) 6 Real, 1 field duplicate	No contamination per SOR calculation
6 real 1 duplicate	7 (total) 6 Real, 1 field duplicate	No contamination per 1:1 comparison TEQ of 9

A summary of the V&V for all EDD records indicates no rejection of the data. All estimated values were well less than associated RFCA ALs. Validation of results was completed at the minimum frequency (≥10% per method and per real sample matrix) as shown in Table 25.

Table 25
IHSS Group 100-5-Summary of Validated Records

Validation Qualifier Codes SWD	Total of CAS Number	PEP-A-007 SW8082 PCBs	TSK-A-003 SW8290 Dioxin/Furan
Null	48	14	34
V	145	47	98



Validation Qualifier Codes SWD	Total of CAS Number	PEP-A-007 SW8082 PCBs	TSK-A-003 SW8290 Dioxin/Furan
JB	21		21
UJ	2	2	
Total Records	216	63	153
% Validated		78%	78%

Comparability

All results presented are comparable with CERCLA data on an intrasite- and DOE complex-wide basis. This comparability is based on the following:

- Use of standardized engineering units in the reporting of measurement results;
- Consistent sensitivities of measurements (≤ 0.5 corresponding action levels);
- Use of site-approved procedures (e.g., Contractual Statements of Work for laboratory analyses);
- Systematic quality controls; and
- Thorough documentation of the planning, sampling/analysis process, and data reduction into formats designed for making decisions derived from the project's original DQOs.

Sensitivity

Adequate sensitivities, in units of micrograms per kilogram (µg/kg) (ppb) for PCBs and parts per trillion (pg/g) for dioxin/furans were attained for all analytes. The maximum detection limit (DL) for PCBs was 10 ppb (Aroclor-1232); the maximum DL given for dioxin/furans was zero. Ideally, detection limits are at least one-half of analyte's associated action level; all DLs were well below that for this project.

9.1.3 Data Quality Summary

The data presented in this report have been verified and validated for the purpose of corroborating decisions to acceptable levels of confidence as stated in the project's original DQOs. There are no qualifications of the data. Results indicate that no chemical contamination exists in excess of RFCA Tier I or Tier II ALS for PCBs, or for dioxins/furans in excess of TEQ. No further actions are necessary for IA Group 100-5.

10.0 REFERENCES

CDPHE, 2002, Environmental Restoration RFCA Standard Operating Protocol FY02 Notification #02-01 Approval Letter, January 16.

DOE, 1992, Historical Release Report for the Rocky Flats Plant, Golden, CO.

DOE, 1997, Closure Plan for Building 123 Components of RCRA Unit 40, Rocky flats Environmental Technology Site, Golden, CO.

DOE, 1999a, RFCA Standard Operating Protocol for Recycling Concrete, Rocky Flats Environmental Technology Site, Golden, CO.

DOE 1999b, DOE Order 414.1A Order 414.1A, Quality Assurance.

DOE, 2000a, Final Sampling and Analysis Plan for the Characterization of Under Building Contamination for UBC 123 and Building 886 Implementing Horizontal Directional Drilling and Environmental Measurement While Drilling, Rocky Flats Environmental Technology Site, Golden, Colorado, May.

DOE, 2000b, Industrial Area Data Summary Report, Rocky Flats Environmental Technology Site, Golden, CO, September.

DOE, 2001a, Industrial Area Sampling and Analysis Plan, Rocky Flats Environmental Technology Site, Golden, CO, June.

DOE 2001b, Industrial Area Sampling and Analysis Plan Addendum #IA-02-01, Rocky Flats Environmental Technology Site, Golden, CO, November.

DOE, 2001c, Annual Update for the Historical Release Report, Rocky Flats Environmental Technology Site, Golden, CO, September.

DOE 2001d, Final Data Summary Report for the Characterization of UBCs 123 and 886, Rocky Flats Environmental Technology Site, Golden, CO, September.

DOE 2002a, Environmental Restoration RFCA Standard Operating Protocol for Routine Soil Remediation, Rocky Flats Environmental Technology Site, Golden, CO. January.

DOE 2002b, Environmental Restoration RFCA Standard Operating Protocol Notification #02-01, Rocky Flats Environmental Technology Site, Golden, CO, January.

EPA, 1994a, QA/G-4, Guidance for the Data Quality Objective Process.

EPA, 1994b, 540/R-94/012, USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review

EPA, 1994c, 540/R-94/013, USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review.

EPA, 1994d, Test Methods for Evaluating Solid Wastes.

EPA, 1998 QA/G-9, Guidance for the Data Quality Assessment Process; Practical Methods for Data Analysis, U.S. EPA 540/R-94/013, USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review.

EPA, 2001, Denver Front Range Study Dioxins in Surface Soil, July.

RMRS, 1997, Closure Plan for the Building 123 Components of RCRA Unit 40, Rocky Flats Environmental Technology Site, Golden, CO, November.

RMRS, 1998a, Proposed Action Memorandum for the Decommissioning of Building 123, RF/RMRS-97-012, Rocky Flats Environmental Technology Site, Golden, Colorado, March.

RMRS, 1998b, Closure Certification for the Building 123 Components of RCRA Unit 40, Rocky Flats Environmental Technology Site, Golden, CO, May.

RMRS, 1998c, Final Close-Out Report, Building 123 Decommissioning Project RF/RMRS-98-253.UN, Rev 0, Rocky Flats Environmental Technology Site, Golden, Colorado September.

World Health Organization, 1998, Assessment of the Health Risk of Dioxins: Re-Evaluation of the Tolerable Daily Intake (TDI), WHO European Center for Environment and Health, Geneva, Switzerland, May.



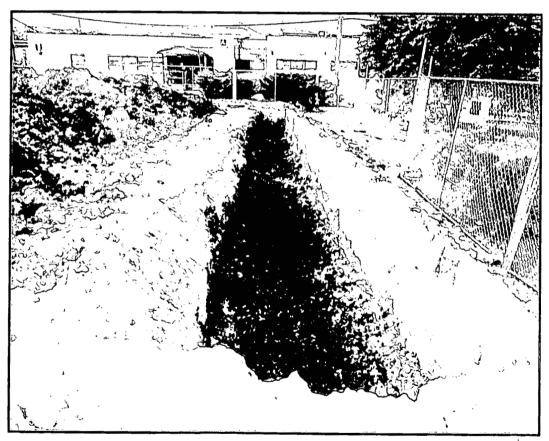
APPENDIX A PROJECT PHOTOGRAPHS

Best Available Copy

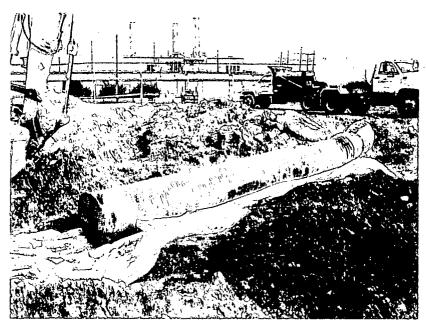


IHSS GROUP 100-4

Photograph 1. Building 123- Slab, rubble



Photograph 2. Building 123 Footer



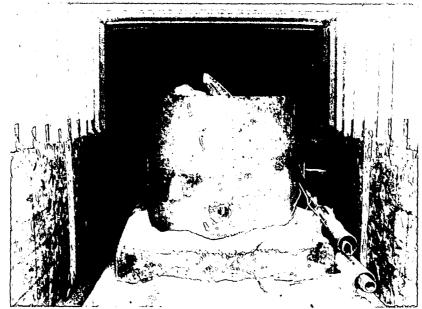
Photograph 3. Building 123 Source Well



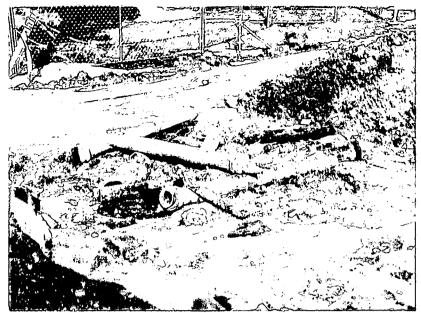
Photograph 4. Building 123 Source Well - Top



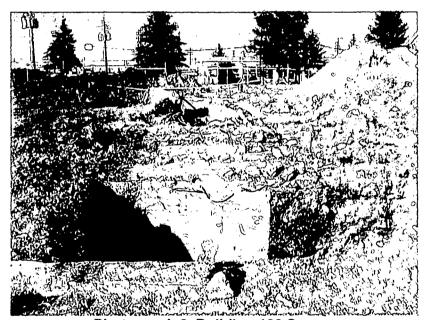
Photograph 5. Building 123 Source Well Excavation Backfilled



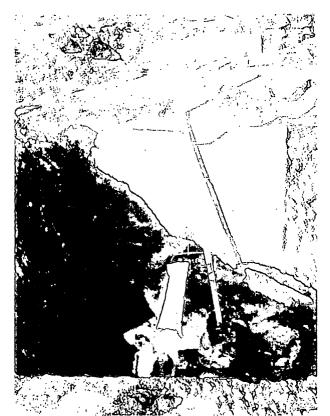
Photograph 6. Building 123 Manhole MH-2



Photograph 7. P-2 Waste Line from Building 123 North Wing



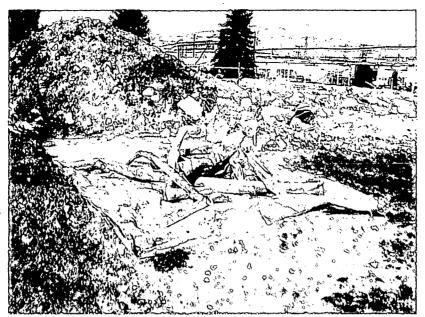
Photograph 8. Building 123 Sumps



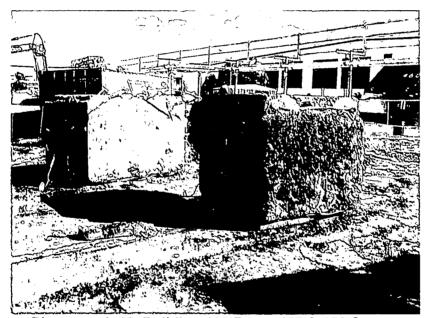
Photograph 9. Building 123 Room 157 & 158 Sumps



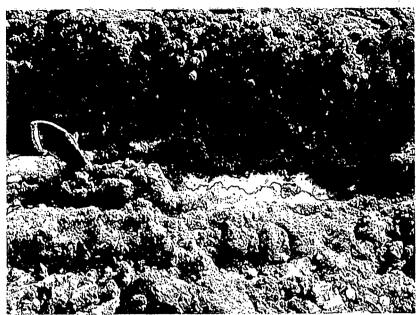
Photograph 10. Building 123 Room 156 Sump



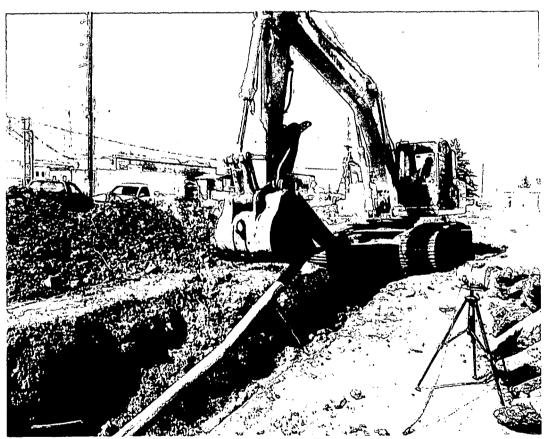
Photograph 11. Building 123 Sump Piping



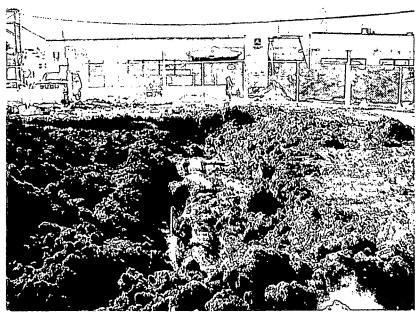
Photograph 12. Building 123 Room 157 & 158 Sumps



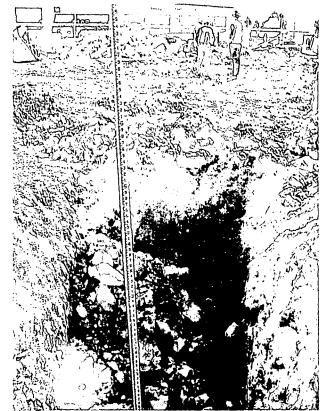
Photograph 13. Liquid from Room 112 Process Line 2



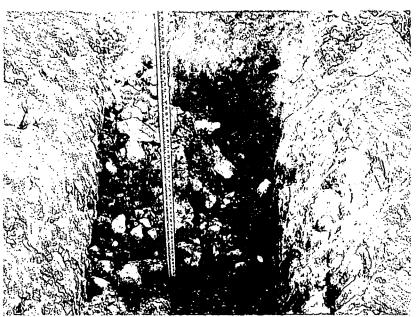
Photograph 14. Room 112 Process Line 1



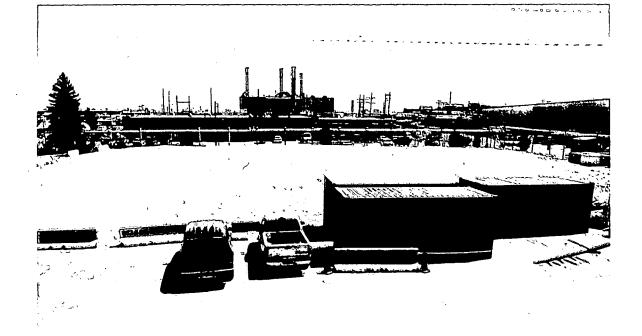
Photograph 15. Room 112 Process Line 2 Looking West



Photograph 16. Building 123 Pb Remediation Area

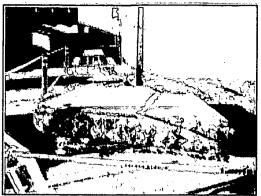


Photograph 17. Building 123 Pb Remediation Area Depth

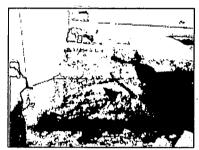


Photograph 18. B123 Restored

IHSS Group 100-5



Photograph 1. Twenty-inch-thick incinerator slab removed (looking north)



Photograph 2. Incinerator slab (looking east)

APPENDIX B ANALYTICAL DATA

Best Available Copy





	in a real	n My	Man Cook		in the state of th	E SE STATE SE	ACAL NO.	RESULTS WATER			7.3	新疆
02E0001-008.001	Concrete	ASP-A-003	ALPHA SPEC	02E0001-008	BV38-0004	CURIUM-242	15510-73-3	-0.00309 PCVG	U			0.0386
02E0001-006,001	Concrete	ASP-A-003	ALPHA SPEC	02E0001-008	BV38-0004	CURIUM-245/248	7440-51-9	0.0482 PCVG	<u> </u>		i i.	0.0206
02E0001-008.001 02E0001-008.001	Concrete	ASP-A-003 ASP-A-003	ALPHA SPEC ALPHA SPEC	02E0001-008	BV38-0004 BV38-0004	Americium-241	14596-10-2 14596-10-2	0.0237 PCVG 0.0459 PCVG	<u> </u>		1	0.0178
02E0001-008.001	Concrete Concrete	ASP-A-003	ALPHA SPEC	02E0001-008 02E0001-008	BV38-0004	Americium-241 CURIUM-244	13981-15-2		n A		·*	0.0355
02E0001-008.001	Concrete	ASP-A-003	ALPHA SPEC	02E0001-008	BV38-0004	Plutonium-239/240	10-12-8	-0.0000783 PCVG	Ū-			0.06
02E0001-008.001	Concrete	ASP-A-003	ALPHA SPEC	02E0001-008	BV38-0004	Plutonium-239/240	10-12-8	0.0213 PCVG	ŭ v	·	• • •	0.0384
02E0001-008.001	Concrete	ASP-A-003	ALPHA SPEC	02E0001-008	BV38-0004	Uranium-234	11-08-5	0.998 PCVG	i		1 11 1	0.0964
02E0001-008.001	Concrete	ASP-A-003	ALPHA SPEC	02E0001-008	BV38-0004	Uranium-234	11-08-5	1.25 PCVG	V		1 -	0.0929
02E0001-008.001	Concrete .	ASP-A-003	ALPHA SPEC	02E0001-008	BV38-0004	Uranium-235	15117-98-1	0.0993 PCVG	J			0.0676
02E0001-008.001	Concrete	ASP-A-003	ALPHA SPEC	02E0001-008	BV38-0004	Uranium-235	15117-96-1		J ·V			0.0932
02E0001-008.001	Concrete	ASP-A-003	ALPHA SPEC	02E0001-008	BV38-0004	Uranium-238	7440-61-1		J V			0.0448
02E0001-008.001	Concrete		ALPHA SPEC	02E0001-008	BV38-0004	Urankum-238	7440-61-1	1.03 PCVG	<u> </u>			0,0794
02E0001-008.002	Concrete		ALPHA SPEC	02E0001-008	BV38-0004	CURIUM-242	15510-73-3		U V			0.0178
02E0001-006.002	Concrete	ASP-A-004 ASP-A-004	ALPHA SPEC	02E0001-008	BV38-0004	CURIUM-245/246	7440-51-9 13981-15-2		j j	247		0.02
02E0001-006.002 02E0001-006.003	Concrete	RGA-A-005	ALPHA SPEC GAMMA SPEC	02E0001-008 02E0001-008	BV38-0004 BV38-0004	CURIUM-244 ACTINIUM-228	7440-34-8	-0.0029 PCVG	iu . ; v			0.0362 0.0625
02E0001-008.003	Concrete	RGA-A-005	GAMMA SPEC		BV38-0004	ACTINIUM-228	7440-34-8	1.34 PCVG	 			0.0635
02E0001-008.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-008	BV38-0004	ANTIMONY-125	14234-35-6	-0.0124 PCVG			;	0.0515
02E0001-008.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-008	BV38-0004	ANTIMONY-125	14234-35-6	0.00838 PCVG		4.	:	0.052
02E0001-008,003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-008	BV38-0004	CERIUM-144	14782-78-8	-0.0485 PCVG	:- ····································	1	1	0.113
02E0001-008.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-008	BV38-0004	CERIUM-144	14762-78-8	-0.0437 PCVG	 	7	·	0.114
02E0001-008.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-008	BV38-0004	COBALT-60	10198-40-0	0.00613 PCVG	V	1		0.0201
02E0001-008.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-008	BV38-0004	COBALT-60	10198-40-0	0.0187 PCVG		1		0.0212
02E0001-008.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-008	BV38-0004	EUROPIUM-152	14683-23-9	-0.0232 PCVG				0.0525
02E0001-008,003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-008	BV38-0004	EUROPIUM-152	14683-23-9	-0.0184 PCVG	V	1		0.0525
02E0001-008.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-008	BV38-0004	EUROPIUM-154	15585-10-1	-0.0093 PCVG	V .	ļ	: :	0.0635
02E0001-008,003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-008	BV38-0004	EUROPIUM-154	15585-10-1	-0.00844 PCVG	<u> </u>			0.083
02E0001-000.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-008	BV38-0004 BV38-0004	EUROPIUM-155	14391-16-3 14391-16-3	0 PCVG	·		4	0.059
02E0001-006.003 02E0001-006.003	Concrete	RGA-A-005 RGA-A-005	GAMMA SPEC		BV38-0004	POTASSIUM-40	13966-00-2	38.6 PCVG		- -		0.144
02E0001-008.003	Concrete	RGA-A-005	GAMMA SPEC		BV38-0004	POTASSIUM-40	13986-00-2	38.7 PCVG	· :	! · ·	: -	0.157
02E0001-008.003	Concrete	RGA-A-005	GAMMA SPEC		BV38-0004	PROMETHIUM-144	7440-12-2	-0.00441 PCVG	v	:		0.0157
02E0001-008.003	Concrete	RGA-A-008	GAMMA SPEC		BV38-0004	PROMETHIUM-144	7440-12-2	0.000485 PCVG			•	0.0158
02E0001-006.003	Concrete	RGA-A-005	GAMMA SPEC		BV38-0004	PROMETHIUM-148	146PM	0.0109 PCVG	v	••	, .	0.0254
02E0001-008.003	Concrete	RGA-A-005	GAMMA SPEC		BV38-0004	PROMETHIUM-146	146PM	0.0204 PCVG	- :	•		0.0259
02E0001-008.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-008	BV38-0004	RUTHENIUM-106	13967-48-1	0.0243 PCVG	v			0.162
02E0001-006.003	Concrete	RGA-A-005	GAMMA SPEC		BV38-0004	RUTHENIUM-108	13967-48-1	0.04 PCVG			•	0,158
02E0001-006.003	Concrete	RGA-A-005	GAMMA SPEC		BV38-0004	THORIUM-234	15065-10-8	0.754 PCVG				0.566
02E0001-006.003	Concrete		GAMMA SPEC		BV38-0004	THORIUM-234	15065-10-8	1.27 PCVG			•	0.562
02E0001-006.003	Concrete	RGA-A-005	GAMMA SPEC		BV38-0004	YTTRIUM-88	13982-38-0	0.00255 PCVG	V			0.0138
02E0001-006.003 02E0001-006.003	Concrete	RGA-A-005 RGA-A-005	GAMMA SPEC		BV38-0004 BV38-0004	YTTRIUM-88	13982-36-0 14596-10-2	0.0108 PCVG -0.024 PCVG	- v	i		0.0145
02E0001-008.003	Concrete		GAMMA SPEC GAMMA SPEC		BV38-0004	Americum-241	14596-10-2	 Commente en en ; 	U V	:		0.0658
02E0001-008.003	Concrete Concrete	RGA-A-005	GAMMA SPEC		BV38-0004	Americium-241 CESIUM-134	13967-70-9	-0.008 PCVG	<u></u>		:	0.0163
02E0001-008.003	Concrete	RGA-A-005	GAMMA SPEC		BV38-0004	CESIUM-134	13987-70-9		<u> </u>		4	0.016
02E0001-006.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-008	BV38-0004	CESIUM-137	10045-97-3	2.32 PCVG		·· ·· · · · · · · · · · · · · · · · ·	<u> </u>	0.019
02E0001-008.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-008	BV38-0004	CESIUM-137	10045-97-3	2.35 PCVG	V	1 *		0.0178
02E0001-008.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-008	BV38-0004	Lead	7439-92-1	1.41 PCVG	· · · · · · · · · · · · · · · · · · ·	7	1 1	0.0311
02E0001-006.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-008	BV38-0004	Lead	7439-92-1	1.41 PCVG	V			0.0317
02E0001-008.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-008	BV38-0004	Uranium-235	15117-96-1	0.0828 PCVG	U .			0.127
02E0001-008.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-008	BV38-0004	Uranium-235	15117-96-1	0.169 PCVG	J V	1	1	0.126
02E0001-008.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-008	BV38-0004 .	Uranium-238	7440-61-1		J			0.566
02E0001-008.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-008	BV38-0004	Uranium-238	7440-61-1		n A		.,	0.562
02E0001-009.001	Concrete	ASP-A-003	ALPHA SPEC	02E0001-009	BU38-0011	Americium-241	14596-10-2		1 - 1 ·	1	: ;	0.0165
02E0001-009.001	Concrete	ASP-A-003	ALPHA SPEC	02E0001-009	BU38-0011	Plutonium-239/240	10-12-8		U V		1	0.0722
02E0001-009,001 02E0001-009,001	Concrete		ALPHA SPEC ALPHA SPEC	02E0001-009 02E0001-009	BU38-0011 BU38-0011	Uranium-234	11-08-5 15117-96-1	1.36 PCVG 0.161 PCVG				0.101
02E0001-009,001	Concrete Concrete	ASP-A-003 ASP-A-003	ALPHA SPEC	02E0001-009 02E0001-009	BU38-0011	Uranium-235 Uranium-236	15117-96-1 7440-81-1	0.161 PCVG	ı v	1		0.11
02E0001-009.002	Concrete		ALPHA SPEC	02E0001-009	BU36-0011	CURIUM-242	15510-73-3		u v	1		0.0375
02E0001-009.002	Concrete	ASP-A-004	ALPHA SPEC	02E0001-009	BU38-0011	CURIUM-245/246	7440-51-9		ا ا	247		0.02
02E0001-009.002	Concrete		ALPHA SPEC	02E0001-009	BU38-0011	CURIUM-244	13981-15-2		UV		1	0,0363
02E0001-009.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-009	BU38-0011	ACTINIUM-228	7440-34-8	1.24 PCVG	ĪV	I	1 1-	0.0658
02E0001-009.003	Concrete		GAMMA SPEC	02E0001-009	BU38-0011	ANTIMONY-125	14234-35-6	0.00443 PCVG	V	I	i i	0.0726
02E0001-009.003	Concrete		GAMMA SPEC	02E0001-009	BU38-0011	CERIUM-144	14782-78-8	0.0182 PCVG	V	1	1	0.13
02E0001-009.003	Concrete		GAMMA SPEC	02E0001-009	BU38-0011	COBALT-60	10198-40-0	0.00392 PCVG	L V	 .	1	0.019
02E0001-009.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-009	BU38-0011	EUROPIUM-152	14683-23-9	0.0284 PCVG		4	ļ	0.0679
02E0001-009.003	Concrete				BU38-0011	EUROPIUM-154	15585-10-1	-0.00944 PCVG	V.	 	 -	0.0579
02E0001-009.003			GAMMA SPEC		BU38-0011	EUROPIUM-155 POTASSIUM-40	14391-16-3 13966-00-2	0.0268 PCVG 22.1 PCVG	. V	 -	 -	0.0674
02E0001-009,003			GAMMA SPEC		BU38-0011		7440-12-2	0.00101 PCVG	- IV	+	4 -	0.162
02E0001-009.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-009	BU38-0011	PROMETHIUM-144	1440-12-2 1	U.OUTUT PCVG	L LV	1	£ 1.	U.U103





1	1 1	10.01		7	I FREE CONTROL		PERMIT				N. V. V. V.	30 1	
02E0001-009.003	Concrete	RQA-A-005	GAMMA SPEC	02E0001-009	BU38-0011	PROMETHIUM-148	146PM	-0.000691 PCVG		٧	1		0.0359
02E0001-009.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-009	BU38-0011	RUTHENIUM-106	13967-48-1	0.0545 PCVG		٧			0.188
02E0001-009.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-009	BU38-0011	THORIUM-234	15065-10-8	1.18 PCVG		V			0.614
02E0001-009.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-009	BU38-0011	YTTRIUM-88	13982-36-0	0.00437 PCVG		٧			0.0155
02E0001-009.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-009	BU38-0011	Americium-241	14596-10-2	0.0044 PCVG	<u> U</u>	V	ļ ·		0.0718
02E0001-009.003 02E0001-009.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-009	BU38-0011 BU38-0011	CESIUM-134 CESIUM-137	13967-70-9	-0.000338 PCVG 8.68 PCVG		V			0.0188
02E0001-009.003	Concrete	RGA-A-005	GAMMA SPEC GAMMA SPEC	02E0001-009 02E0001-009	BU38-0011	Lead	7439-92-1	1,31 PCVG	j.	V	:		0.0200
02E0001-009.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-009	BU38-0011	Uranium-235	15117-96-1	0.0855 PCVG		v	 		0.142
02E0001-009.003	Concrete	RGA-A-005	GAMMA SPEC	02E0001-009	BU38-0011	Uranium-238	7440-61-1	1.16 PCVG		·	 		0.614
02E0001-011.001	Sol	MIS-A-004	SW9040B CHAPTER 7.	02E0001-011	BU38-0010	CORROSIVITY FOR LIQUID WASTE	261.22-A-1	8.4 S.U.		1	 		0.014
02E0001-011,001	Soll	MIS-A-004	SW9040B CHAPTER 7.	02E0001-011	BU38-0010	CORROSIVITY FOR LIQUID WASTE	261.22-A-1	8.4 S.U.		V1			
02E0001-012.001	Sol	MIS-A-004	SW9040B CHAPTER 7.	02E0001-012	BU38-0012	CORROSIVITY FOR LIQUID WASTE	261.22-A-1	8.8 S.U.		V1	· · · · · ·		
02E0001-013.001	Sol	MIS-A-004	SW9040B CHAPTER 7.	02E0001-013	BU38-0013	CORROSIVITY FOR LIQUID WASTE	261,22-A-1	8.8 S.U.	-	V1	·		
02E0001-014.001	Soll	MIS-A-004	SW9040B CHAPTER 7.	02E0001-014	BU38-0014	CORROSIVITY FOR LIQUID WASTE	261.22-A-1	8.7 S.U.			· ·		
02E0001-015.001	Sol	MIS-A-004	SW9040B CHAPTER 7.	02E0001-015	BU38-0015	CORROSIVITY FOR LIQUID WASTE	261.22-A-1	8.8 S.U.		V1			
02E0001-016.001	Sof	MET-A-024	SW-846 6010/60108	02E0001-016	BU39-0006	Lead	7439-92-1	7.8 MG/KG	В	V			0.23
02E0001-017.001	Solt	MET-A-024	SW-848 6010/6010B	02E0001-017	BU39-0007	Lead	7439-92-1	4.8 MG/KG	В	V			0.23
02E0001-019.001	Sol	MET-A-024	SW-846 6010/6010B	02E0001-019	BU39-0012	Lead	7439-92-1	9.4 MG/KG	8	٧	l		0.23
02E0001-020.001	Sol	MET-A-024	SW-846 6010/8010B	02E0001-020	BU39-0013	Lead	7439-92-1	6.4 MG/KG	8	V			0.22
02E0001-021.001	Soll	MET-A-024	SW-846 6010/8010B	02E0001-021	BU39-0008	Lead	7439-92-1	12.2 MG/KG	4		ļ		0.23
02E0001-022.001	Soil	SVO-A-007	SW-846 8270B	02E0001-022	BU38-0009	UNKNOWN	TIC	1100 UG/KG	11	<u>v</u>	703		
02E0001-022.001	Soll	SVO-A-007	SW-846 8270B	02E0001-022	BU38-0009	1,2,4-Trichlorobenzene	120-82-1	350 UG/KG		<u>v</u>	703		68
02E0001-022.001	Sol	SVO-A-007	SW-846 8270B	02E0001-022	BU38-0009	1,2-0C8	95-50-1	350 UG/KG	U	V	703		68
02E0001-022.001	Sol	SVO-A-007	SW-846 8270B	02E0001-022	BU38-0009	1,3-DICHLOROBENZENE	541-73-1	350 UG/KG	TU.	V	703		76 59
02E0001-022.001	Sol	SVO-A-007	SW-846 8270B	02E0001-022	BU38-0009	1,4-DC8	106-46-7	350 UG/KG	U	<u>v</u>	703		
02E0001-022.001	Sol	SVO-A-007	SW-846 8270B	02E0001-022	BU38-0009	2,4,5-Trichlorophenol	95-95-4	350 UG/KG 72 %REC	-	· <u>v</u>	703	1	80
02E0001-022.001 02E0001-022.001		SVO-A-007	SW-846 8270B	02E0001-022 02E0001-022	BU38-0009 BU38-0009	2,4,6-TRIBROMOPHENOL 2,4,6-Trichlorophenol	116-79-8 88-06-2	350 UG/KG			703		53
02E0001-022.001	Sol	SVO-A-007 SVO-A-007	SW-846 8270B SW-846 8270B	02E0001-022	BU38-0009	2,4-Dichlorophenol	120-83-2	350 UG/KG			703		2
02E0001-022.001	Sol	SVO-A-007	SW-846 6270B	02E0001-022	BU38-0009	2,4-Dimethylphenol	105-67-9	350 UG/KG	l ü -	v	703		94
02E0001-022.001	Sol	SVO-A-007	SW-846 8270B	02E0001-022	BU38-0009	2,4-Dintrophenol	51-28-5	1700 UG/KG			140/141/703		530
02E0001-022.001	Sof	SVO-A-007	SW-848 82708	02E0001-022	BU38-0009	2,4-DNT	121-14-2	350 UG/KG		₩	140/141/703		
02E0001-022.001	Sol	SVO-A-007	SW-846 6270B	02E0001-022	BU38-0009	2.6-DNT	606-20-2	350 UG/KG		V	703		100
02E0001-022.001	Sol	SVO-A-007	SW-848 82708	02E0001-022	BU38-0009	2-Chloronaphthalene	91-58-7	350 UG/KG	Ü		703		41
02E0001-022.001	Sol	SVO-A-007	SW-848 8270B	02E0001-022	BU38-0009	2-Chlorophenol	95-57-8	350 UG/KG	U	v	703		78
02E0001-022.001	Sol	SVO-A-007	SW-846 82708	02E0001-022	BU38-0009	2-FLUOROBIPHENYL	321-60-8	63 %REC			· · · · · · · · · · · · · · · · · · ·		
02E0001-022.001	Sol	SVO-A-007	SW-846 82708	02E0001-022	BU38-0009	2-Methylnaphthalene	91-57-6	350 UG/KG	U	V	703		63
02E0001-022.001	Sof	SVO-A-007	SW-846 8270B	02E0001-022	BU38-0009	2-Methylphenol	95-48-7	350 UG/KG	U	V	703		82
02E0001-022.001	Sol	SVO-A-007	SW-846 8270B	02E0001-022	BU38-0009	2-Nitroanitine	88-74-4	1700 UG/KG	U	٧	703		85
02E0001-022.001	Sol	SVO-A-007	SW-846 8270B	02E0001-022	BU38-0009	2-NITROPHENOL	88-75-5	350 UG/KG	Ü	V	703	1	130
02E0001-022.001	(Sol	SVO-A-007	SW-846 8270B	02E0001-022	BU38-0009	3,3'-Dichlorobenzidine	91-94-1	1400 UG/KG	U	٧	703		75
02E0001-022.001	Sof	SVO-A-007	SW-846 8270B	02E0001-022 '	BU38-0009	3-NITROANILINE	99-09-2	1700 UG/KG	U	٧	703		91
02E0001-022.001	Soil		SW-846 8270B	02E0001-022	BU38-0009	4,6-Dinitro-2-methylphenol	534-52-1	1700 UG/KG		w	140/141/703		450
02E0001-022.001	Soll		SW-846 8270B	02E0001-022		4-CHLORO-3-METHYLPHENOL	59-50-7	350 UG/KG	U		703		100
02E0001-022.001	Soll		SW-846 8270B	02E0001-022	BU38-0009 ,	4-Chloroanifine	106-47-8	350 UG/KG			703		50
02E0001-022.001	Sol		SW-846 8270B	02E0001-022	BU38-0009	4-CHLOROPHENYL PHENYL ETHER	7005-72-3	350 UG/KG	U	<u>v</u>	703		76
02E0001-022.001	Sof		SW-846 82708	02E0001-022	BU38-0009	4-Methylphenol	108-44-5	350 UG/KG		<u>v</u>	703		
02E0001-022.001	Soil		SW-846 8270B	02E0001-022	BU38-0009	4-NITROANILINE	100-01-6	1700 UG/KG			703		66
02E0001-022.001	Sof		SW-846 82708	02E0001-022	BU38-0009	4-Nitrophenol	100-02-7	1700 UG/KG			703	i_	50 76 79 68 100 38
02E0001-022.001	Sof	SVO-A-007	SW-846 8270B	02E0001-022	BU38-0009	ACENAPHTHYLENE	208-96-8	350 UG/KG	-4		703	, i	
02E0001-022.001	Soi		SW-848 8270B	02E0001-022	BU38-0009	Acenapthene	83-32-9	350 UG/KG			703		49
02E0001-022.001	Sol		SW-846 8270B	02E0001-022	BU38-0009	Anthracene	120-12-7	350 UG/KG			703		83
02E0001-022.001	Sol		SW-846 8270B	02E0001-022	BU38-0009	Benzo(a)anthracene	56-55-3	350 UG/KG	U		703		100
02E0001-022.001	Sol		SW-846 82708	02E0001-022	BU38-0009	Benzo(a)pyrene	50-32-8 205-99-2	350 UG/KG 350 UG/KG			703 703	:	100
02E0001-022.001	Sol		SW-846 82708	02E0001-022	BU38-0009 BU38-0009	Benzo(b)fluoranthene	191-24-2	350 UG/KG			703	;	110 75
02E0001-022.001	Sol		SW-846 8270B SW-846 8270B	02E0001-022	BU38-0009	BENZO(gh)PERYLENE BENZO(k)FLUORANTHENE	207-08-9	350 UG/KG		-v	703		(3
02E0001-022.001 02E0001-022.001	Sol		SW-846 8270B	02E0001-022	BU38-0009	Benzoic acid	65-85-0	1700 UG/KG	Ü	Ť	703	:	610
02E0001-022.001	Sol		SW-846 82708	02E0001-022	BU38-0009	Benzyl alcohol	100-51-6	350 UG/KG	lŭ !	v	703	. :	82
02E0001-022.001	Soil		SW-848 8270B	02E0001-022	BU38-0009	Bis(2-chlorethyl)ether	111-44-4	350 UG/KG	Ü		703		52
02E0001-022.001	Sol	SVO-A-007	SW-848 82708	02E0001-022	BU38-0009	BIS(2-CHLOROETHOXY)METHANE	111-91-1	350 UG/KG		<u> </u>	703		79
02E0001-022.001	Sol		SW-848 82708	02E0001-022	BU38-0009	Bis(2-chloroisopropyl)ether	39638-32-9	350 UG/KG	Ü	·	703		74
02E0001-022.001	Sol		SW-848 82708	02E0001-022	BU38-0009	Bis(2-ethythexyl)phthalate	117-81-7	350 UG/KG		v.	703	i	74
02E0001-022.001	Sof		SW-846 8270B	02E0001-022	BU38-0009	Butyl benzylphthalate	85-68-7	350 UG/KG		<u></u>	703		36
02E0001-022.001	Sol		SW-846 8270B	02E0001-022	BU38-0009	Chrysene	218-01-9	350 UG/KG	Ū	V	703		57
02E0001-022.001	Sol		SW-846 8270B	02E0001-022	BU38-0009	DIA-BUTYL PHTHALATE	84-74-2	350 UG/KG		V	703	:-	81
	Sol		SW-846 8270B	02E0001-022	BU38-0009	Di-n-octylphthalate	117-84-0	350 UG/KG	U		703	:	38
02E0001-022.001								- The second of the second of			· · ·	:	40
02E0001-022.001	Sol	SVO-A-007	SW-846 8270B	02E0001-022	BU38-0009	Dibenz(a,h)anthracene	53-73-3	350 UG/KG	10		703	1 mm mm m -	50
			SW-846 82708 SW-846 82708	02E0001-022 02E0001-022	BU38-0009	Dibenz(a,h)anthracene Dibenzofuran	53-73-3 132-64-9 84-66-2	350 UG/KG 350 UG/KG 710 UG/KG	Ū	٧	703 703 703	<u>i</u> -	50 88 57





*****	والتراجي والمساور والمساورة	Parameters:	LOUDS ANALYSIS SUPERIOR	John FELD Heavy			Leauniere	Advices	er driesus	aries in	E/VEC	ALLEAN WATER	14000	T. 1984
المناه المناها	والمان المانية	11.	MAN THE COOL SERVICE	REAMP NUM	and a condition of	ESTATION CONTRACTOR	CAS NO	RESULT	S SURIES	1000	100		360	2 kc
02E0001-022.001	Sol			02E0001-022	BU38-0009	Dimethly phthalate	131-11-3		50 UG/KG		٧	703	L	91
02E0001-022.001 02E0001-022.001	Sol	SVO-A-007	SW-846 8270B SW-846 8270B	02E0001-022	BU38-0009 BU38-0009	Fluoranthene	206-44-0 88-73-7		50 UG/KG		V	703	ļ.,l	90
02E0001-022.001	Sol	SVO-A-007	SW-846 8270B	02E0001-022	BU38-0009	Hexachlorobenzene	118-74-1		50 UG/KG	- 0	· · · · ·	703	L	81
02E0001-022.001	Sol		SW-846 82708	02E0001-022	BU38-0009	Hexachlorobutadiene	87-68-3		50 UG/KG	Ü	V	703	1	110
02E0001-022.001	Sol	SVO-A-007	SW-846 8270B	02E0001-022	BU38-0009	Hexachlorocyclopentadiene	77-47-4		10 UG/KG	U	V	703	i	35
02E0001-022.001	Soll	SVO-A-007		02E0001-022	BU38-0009	Hexachioroethane	67-72-1		50 UG/KG	U	V	703		53
02E0001-022.001	Soll	SVO-A-007 SVO-A-007	SW-846 8270B SW-846 8270B	02E0001-022	8U38-0009 BU38-0009	Indeno(1,2,3-cd)pyrene	193-39-5 78-59-1		50 UG/KG 50 UG/KG	U	V	703 703	:	51
02E0001-022.001	Sol	SVO-A-007	SW-846 6270B	02E0001-022 02E0001-022	BU38-0009	Isophorone n-Nitrosodi-n-propylamine	621-64-7		50 UG/KG	Ü	·	1703		
02E0001-022.001	Sol	SVO-A-007	SW-846 8270B	02E0001-022	BU38-0009	n-Nitrosodiphenylamine	86-30-8		50 UG/KG	Ū	V	703		77
02E0001-022.001	Sol	SVO-A-007		02E0001-022	BU38-0009	Naphthalene	91-20-3		50 UG/KG	Ū	v	703	:	75
02E0001-022.001	Sol			02E0001-022	BU38-0009	Nitrobenzene	98-95-3		50 UG/KG	<u> </u>	V	703		91
02E0001-022.001	Sol Sol	SVO-A-007	SW-846 82708 SW-846 82708	02E0001-022 02E0001-022	8U38-0009 BU38-0009	NITROBENZENE-D5	4165-60-0 367-12-4		70:%REC					
02E0001-022.001	Sol	SVO-A-007	SW-846 8270B	02E0001-022	BU38-0009	p-BROMODIPHENYL ETHER	101-55-3		50 UG/KG	- tu -	v	703		76
02E0001-022.001	Soll			02E0001-022	BU38-0009	Pentachiorophenol	87-86-5	17	00 UG/KG	U	V	703		400
02E0001-022.001	Soil			02E0001-022	BU38-0009	PHENANTHRENE	85-01-8		50 UG/KG		V	703		40
02E0001-022.001	Soll Soll			02E0001-022	BU38-0009	Phenol DS	108-95-2		50 UG/KG	U	٧	703		76
02E0001-022.001 02E0001-022.001	Sol			02E0001-022 02E0001-022	BU38-0009 BU38-0009	PHENOL-D5 Pyrene	4165-62-2 129-00-0		58 %REC 50 UG/KG	- 	v ·	703		41
02E0001-022.001	Sol			02E0001-022	BU38-0009	TERPHENYL-D14	1718-51-0		74 %REC	-			:	_;"
02E0001-023.001	Soll	MET-A-031	SW-846-TOTAL	02E0001-023	123 SLAB REMOVAL GRAB SMPL.	Arsenic	7440-38-2		J.4 UG/L	U	j	105/214/232	•	3.4
02E0001-023.001	Sol			02E0001-023	123 SLAB REMOVAL GRAB SMPL.	Arsenic	7440-38-2		08 %REC			:		
02E0001-023.001 02E0001-023.001	Sol			02E0001-023	123 SLAB REMOVAL GRAB SMPL. 123 SLAB REMOVAL GRAB SMPL.	Arsenic	7440-38-2 7440-39-3		12:%REC 88:%REC			···		
02E0001-023.001	Sol			02E0001-023 02E0001-023	123 SLAB REMOVAL GRAB SMPL.	Barlum Barlum	7440-39-3		90 KREC	·i		ļ	• • •	
02E0001-023.001	Sol			02E0001-023	123 SLAB REMOVAL GRAB SMPL.	Barlum	7440-39-3		39 UGAL	В	v	214/232		0.86
02E0001-023.001	Soll			02E0001-023	123 SLAB REMOVAL GRAB SMPL.	Cadmium	7440-43-9		.6 UG/L	В	Ý	214/232		0.35
02E0001-023.001	Sol			02E0001-023	123 SLAB REMOVAL GRAB SMPL.	Cadmlum	7440-43-9		95 %REC			1		
02E0001-023.001 02E0001-023.001	Sol			02E0001-023 02E0001-023	123 SLAB REMOVAL GRAB SMPL. 123 SLAB REMOVAL GRAB SMPL.	CHROMIUM	7440-43-9 7440-47-3		97 %REC	В	,	117/214/232/804		0.51
02E0001-023.001				02E0001-023	123 SLAB REMOVAL GRAB SMPL.	CHROMIUM	7440-47-3		99 %REC		ž	1111214232004		0.51
02E0001-023.001	Soil			02E0001-023	123 SLAB REMOVAL GRAB SMPL.	CHROMIUM	7440-47-3	1	02 %REC			**** ** *** ** **		
02E0001-023.001				02E0001-023	123 SLAB REMOVAL GRAB SMPL.	Lead	7439-92-1		00 %REC					
02E0001-023.001	Sol			02E0001-023	123 SLAB REMOVAL GRAB SMPL.	Lead	7439-92-1		05 %REC 70 UG/L		·	214/232		-
02E0001-023.001 02E0001-023.001	Soli Soli			02E0001-023 02E0001-023	123 SLAB REMOVAL GRAB SMPL. 123 SLAB REMOVAL GRAB SMPL.	Mercury	7439-92-1 7439-97-6		23 UG/L	U	· · · · · ·	214/232		0.023
02E0001-023.001				02E0001-023	123 SLAB REMOVAL GRAB SMPL.	Selentum	7782-49-2		.4;UG/L	- B	ÜJ 🦳	107/214/232		4.8
02E0001-023.001	Sol	MET-A-031	SW-846-TOTAL	02E0001-023	123 SLAB REMOVAL GRAB SMPL.	Selenium	7782-49-2	1	09 %REC			-	•	
02E0001-023.001	Soil			02E0001-023	123 SLAB REMOVAL GRAB SMPL.	Selenium	7782-49-2		12 %REC			·		
02E0001-023.001 02E0001-023.001	Sol			02E0001-023	123 SLAB REMOVAL GRAB SMPL.	Silver	7440-22-4 7440-22-4		1.2 UG/L	В	O.	105/107/214/232		0.47
	Sol			02E0001-023 02E0001-023	123 SLAB REMOVAL GRAB SMPL. 123 SLAB REMOVAL GRAB SMPL.	Silver	7440-22-4		09 %REC			† · -		
02E0001-024.001					123 SLAB REMOVAL GRAB SMPL.	URANIUM	11-09-6		7 MG/KG	U			•	15.7
02E0001-024.001	Soft			02E0001-024	123 SLAB REMOVAL GRAB SMPL.	Aluminum	7429-90-5		30 MG/KG		V			5.3
02E0001-024.001	Sol			02E0001-024	123 SLAB REMOVAL GRAB SMPL.	Antimony	7440-36-0).3 MG/KG	U	Ţ	105/112		0.3
02E0001-024.001 02E0001-024.001	Soil			02E0001-024 02E0001-024	123 SLAB REMOVAL GRAB SMPL. 123 SLAB REMOVAL GRAB SMPL.	Arsenic Barlum	7440-38-2 7440-39-3		I.7 MG/KG	<u> </u>	. <u>J</u>	105		0.38 0.097
02E0001-024.001				02E0001-024	123 SLAB REMOVAL GRAB SMPL.	Beryttum	7440-41-7		32 MG/KG	+	ŪJ	107		0.097
02E0001-024.001	Sof			02E0001-024	123 SLAB REMOVAL GRAB SMPL.	BORON	7440-42-8		.1 MG/KG	U	V			1,1
02E0001-024.001	Sol			02E0001-024	123 SLAB REMOVAL GRAB SMPL.	Cadmium	7440-43-9		21 MG/KG	В	W	107	ii.	0.039
02E0001-024.001				02E0001-024	123 SLAB REMOVAL GRAB SMPL.	CALCIUM	7440-70-2		70 MG/KG		<u>J</u>	105/111	.	5.1
02E0001-024,001 02E0001-024,001	Soil Soil			02E0001-024 02E0001-024	123 SLAB REMOVAL GRAB SMPL. 123 SLAB REMOVAL GRAB SMPL.	CHROMIUM Cobalt	7440-47-3 7440-48-4		3 MG/KG	В	* ·	<u> </u>	i	0.057 0.52
02E0001-024.001	Sol			02E0001-024	123 SLAB REMOVAL GRAB SMPL.	Copper	7440-50-8	10	3 MG/KG	- P	j	117	: :	0.52
02E0001-024.001	Sol	MET-A-023	SW-846 6010/6010B	02E0001-024	123 SLAB REMOVAL GRAB SMPL.	tron	7439-89-8	109	00 MG/KG		V	1	1	1.8
02E0001-024.001	Sol	MET-A-023			123 SLAB REMOVAL GRAB SMPL.	Lead	7439-92-1		8 MG/KG	.	Y			0.22
02E0001-024.001 02E0001-024.001	Sol			02E0001-024 02E0001-024	123 SLAB REMOVAL GRAB SMPL. 123 SLAB REMOVAL GRAB SMPL.	Lithium MAGNESIUM	7439-93-2 7439-95-4		11 MG/KG	В	v.			0,46
02E0001-024.001	Soil			02E0001-024	123 SLAB REMOVAL GRAB SMPL.	Manganese	7439-96-5		45 MG/KG	1	j	112		0.053
02E0001-024.001	Sol			02E0001-024	123 SLAB REMOVAL GRAB SMPL.	Mercury	7439-97-6		04 MG/KG	U		: T	: :	0.004
02E0001-024.001	Sol			02E0001-024	123 SLAB REMOVAL GRAB SMPL.	Mercury	7439-97-6		03 MG/KG	В				0.004
02E0001-024.001	Sol			02E0001-024	123 SLAB REMOVAL GRAB SMPL.	Mercury	7439-97-6		07 %REC			ļ	ļ.,	
02E0001-024.001 02E0001-024.001	Soil Soil			02E0001-024 02E0001-024	123 SLAB REMOVAL GRAB SMPL. 123 SLAB REMOVAL GRAB SMPL.	Molybdenum Nickel	7439-98-7 7440-02-0		15 MG/KG	B	·		;	0.15
02E0001-024.001	Sol			02E0001-024	123 SLAB REMOVAL GRAB SMPL.	POTASSIUM	7440-09-7		90 MG/KG	-	Ϋ́	1	i i	78.6
02E0001-024.001	Sol	MET-A-023	SW-846 6010/60109	02E0001-024	123 SLAB REMOVAL GRAB SMPL.	Selenium	7782-49-2	0.	58 MG/KG	В	V	I		0.54
02E0001-024.001	Sol			02E0001-024	123 SLAB REMOVAL GRAB SMPL.	SILICA	7631-86-9		25 MG/KG		J	110/113	1	3.9
02E0001-024.001					123 SLAB REMOVAL GRAB SMPL.	Silver	7440-22-4		53 MG/KG 93 MG/KG		V		ļ <u>.</u>	0.053
02E0001-024.001	Sol	MET-A-023	SW-846 6010/6010B	02E0001-024	123 SLAB REMOVAL GRAB SMPL.	SODIUM	7440-23-5	3	an MG/KG	U	٧ .	1		393

8	0.46	0	0.18	0.57	-	15.1				_	5.1	000		_	;))	:		0.00			8		:	- :		3		:			-	3		;	e o	1	;	5		1	i	3		i	77.0		ī ļ		i	0			8	800	2	ı	5	3,	1	:	*	2	70.0	ļ		Ī		2.
-						-			;				:				:			٠	1					:			:	-		٠	-				1	:		.!-	-	1			-		•	ļ	-	-	-	-	+	! ! !	-	-	-;		;	-	-	· ·		-	;				
			:-								•	2412	711.6					;				: : :			-											:	-					+				-			†					~				1											M13
_	U 1107	101	: :						;		٠.	5	3	1.	1	¥.			,	-		2	٠		-		2		-	4. ;		<u>.</u>		-		· · ·	- -				+	+		-	+	+	!	-	-	-	>	+	-	=			+	<u> </u>	1	+	-		.	-	-		+		=
9	9	8		Ĺ		` _			Z		-	=	2 2		2 0	-i.	1	1	1	-		3	- !					1		z	ż	-							7	-	2				1	-	-					z	z	1	2		-	0	0	1	+		a				2 2	_	_
MG/KG	MG/KG	MG/KG	MGKG	MG/KG	MG/KG	MG/KG	*REC	*REC	*REC	*REC	MG/KG	000	200	200	J. C.	2 (A)	N. C.	KEC	MG/KG	X.EC	%REC	MG/KG) (L	2 2	MGA	N KE	200	NEC.	NEC.	*REC	X EC	MC/KG	S C C	AREC S	1	2	*REC	2000	200	A DEC	Y DEC	NO.	D CONTRACT	S CENT	S S S S S S S S S S S S S S S S S S S	MONG	X.REC	*REC	%REC	*REC	MG/KG	%REC	*REC	MCACG	S C	MGAKG	200	MEC	S COL	AREC.	ARC C	אטעטר	2000	Merke	* BEC	S S S S S S S S S S S S S S S S S S S	KDEC	AKEL SACT	MC/CI
10.3	99.0	1.7	338	16.5	38.6	15.1	5		22	928	3790	200	67.0	2	5	9	3	18	35.8	8	8	0.25	8 3			18	270	3 1	92	121	22	2280	E'/	8	5.6	7	3 2	8 8	2.8	200		0000	811		3 5	8 8	8	8	101	â	1530	8	88	137	0.0039	0.22	3	100	3.8	76	8 8	302.	312	0.77	8 8	3 9	2 0	- 6	Arres.
7440-24-6	7440-28-0	7440-31-5	7440-32-6	7440-62-2	7440-68-6	11.09-6	11.09.6	11-09-6	7429-90-5	7429-90-5	7429-90-5	7440-38-0	2440.30	7440.70	200	7460-30-2	7440-30-2	7440-38-2	7440-39-3	7440-39-3	7440-39-3	7440-41-7	74041-7	/440-1-/	0-7-0-1	1440-42-0	144043-8	744043-8	7440-43-9	7440-70-2	7440-70-2	7440-70-2	/44047-3	7440-47-3	2		7440-45-4	2440 60 0	000000	7440.50	74.30.40.4	7430.00	7470.02.1	7430.02.4	7430.02.4	7439-02-2	7439-83-2	7439-83-2	7439-86-4	7439-85-4	7439-95-4	7439-98-5	7439-96-5	7439-96-5	7439-97-8	7439-98-7	1439-90-1	7440 000	744002-0	7440-02-0	7440.00	7440-09-7	7782.40.2	7,8249-2	7782-49-2	7674 66 0	7471.86.9	7631-00-K	7074 80 0
		-					:			: :	:							***							-					** ************************************																																							
uthm	TERM		5	adium		MCM	MON	NON	indi.	mu		TOOK.	TOUR.	inoria.	Tiony	36	Jac.	Jic.	Ę	5	5	Eng.			200	S		E76	Se	SGM	NO.	COUN	OMIDM	OMBUM	MOMION				P	120	Š					E	E	Ę	NESIUM	NESIUM	NESIUM	ganese	garrese	rrganese	Ŕ	Syddenum Syddenum	DOBUM	Doeuru		5 7	4000	ASSIUM	ASSIGN	E .	5		S :	<u> </u>	
Sto	1 1 1	<u>ع</u>	P. P.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	200	25	5	S CE	ALT.	A	Ā	1	1			¥ .	ξ.	¥ .	Bar	Ball	Bar	8	8	9		5	3 3	3	3	ี้ ร	3	3	5	3	5	3	8	3 2	3 8	3 8		1	1			1	5	5	MAG	MAG	MAG	E S	Man.	Man.	¥ .	Ì.	1	1			2 2	2 8	2 3	3	8 8	3	100	1	
RAB SMP	RAB SMPL	RAB SMP	RAB SMP	RAB SMP	RAB SMP	RAB SMP	RAB SMP	RAB SMP	RAB SMP	RAB SMP	RAB SMP	ONS BYO	DAD GAD	DAD CAS	TAG ONL	AB SWE	HAB SMP	KAB SMP	RAB SMP	RAB SMP	RAB SWP	RAB SMP	KAB SMP	HAB SMP	TAN SMIT	MAB SM	AND ONL	KAB SMP	RAB SMP	RAB SMP	RAB SMP	RAB SMP	KAB SMP	RAB SMP	AND DAY	KAB SMP	RAB SMP	THE GAR	THO 040	DAB SWD	DAD GAD	THE GAR	DAR SWP	OVP GAO	DAD CAD	PAR SMP	RAB SMP	RAB SMP	RAB SMP	RAB SMP	RAB SMP	RAB SMP	RAB SMP	RAB SMP	RAB SMP	RAB SMP	LWS BY	TAB SAP	A SOUTH	KAB SMP	240 040	DAD SWD	DAD CUD	KAB SMP	PAB SMP	KAB SMP	KAD SMT	KAB SM	
EMOVAL C	EMOVAL C	EMOVAL C	EMOVAL C	EMOVAL C	EMOVAL	EMOVAL C	EMOVAL C	EMOVAL	EMOVAL	EMOVAL	FMOVAL	EMOVAL	TANCE OF THE PARTY	T TO THE	EMOVAL	MOVAL	MOVAL	EMOVAL	EMOVAL	EMOVAL	EMOVAL	EMOVAL	EMOVAL	EMOVAL O	T ACA	MOVAL	MOVAL	MOVAL	EMOVAL	EMOVAL C	EMOVAL	EMOVAL	EMOVAL	EMOVAL	S AVON	EMOVAL	EMOVAL	TACMUS AND A STATE OF THE STATE	TACK!	TACK!	14/10/12		ENOVAL	1000	TATOM S	LANCAL	EMOVAL	EMOVAL	EMOVAL G	EMOVAL G	EMOVAL C	EMOVAL G	EMOVAL G	EMOVAL	EMOVAL O	EWOVAL O	EMOVAL G	EMOVAL O	S WON'T	MOVAL	TANCE OF THE PARTY	TACAL C	TANCAL C	MOVAL	MOVAL G	MOVAL G	D TAYOUT	MOVAL	
23 SLAB R	23 SLAB R	23 SLAB R	23 SLAB R	23 SLAB R	23 SLAB R	23 SLAB R	23 SLAB R	23 SLAB R	23 SLAB R	23 SLAB R	23 SLAB R	0 0 V	2000	2007106	2000	S SAB K	Z3 SLAB R	23 SLAB R	23 SLAB R	23 SLAB R	23 SLAB R	23 SLAB R	Z3 SCAB R	23 SCB R	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 S C S	200	23 SLAB R	Z3 SLAB R	23 SLAB R	23 SLAB R	23 SLAB R	73 SLAB R	23 SLAB R	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	S SABR	SABR			2004191	200	2000	S S S S S S S S S S S S S S S S S S S	A A A D		MARK	23 SLAB R	23 SLAB R	23 SLAB R	23 SLAB R	Z3 SLAB R	23 SLAB R	23 SLAB R	23 SLAB R	23 SLAB R	73 SLABR	SCHER	23 SAB R	N N N	N S C S	2000	200400	N O VO	S SLAB R	SLABR	23 S. AB R	2 3 2 A B D	2 SAB 2	1
1-024	1-024	700	1024	1-024	1024	1-025	1-025	1.025	1-025	1-025	500	į	2 2		C S	C	ç	923	529	ş	ş	53	Ç	Ş	9	Ş	Ç	Ş	929	- 53	Ş	Ş	Ş	S	C)	Ç.	£ 5		2	g ž		3 2	2		2 8	3 8	8	500	520	-	529	Ş	929	529	Ş	Ş	ç	Ş	Ş	Ç	Ş	Ç E	C X	Ş	8	S S	COL	Ş	
02E000	00E00	02E000	02E000	02E000	02E000	02E000	02E000	02E000	02E000	02E000	00500	200	370		2000	S S	025000	02E000	05E000	02E000	02E00	02E000	02E000	CZE000	300	UZE COO	CECO	02E000	02E00	02E000	03E000	02E00	0ZE000	02E000	CECOLO	OZEOOO	OZE00	200	300		200		WE DO	S C	S COL	WE DOO	00E	025000	00E000	02E000	02E000	02E000	02E000	00 E000	02E000	025	CZE 000	CZEOCO	UZEDOO	SE SE	UZEUOO	CZECCO	SECTION	OZEDOO	02500	GZE000	UKEUSA	UZE OU	
V6010B	M8010B	M6010B	M010B	W8010B	W8010B	W80108	M80108	V6010B	V80108	V6010B	80108	90,090	9 9	90109	90109	M6010B	80108	80108	W6010B	W6010B	W6010B	80108	90108	90108	90108	90109	900	90108	90108	760108	80108	80108	80108	/6010B	90109	90108	80108	9 00	9 9	90109	9000	9 6	90109	90.00	900	40109	80108	80108	160108	90109	76010B	460108	780108	80108	80108	80108	90108	90108	90108	80108	90108	80108	90108	80108	80108	80108	20100	90108	
N-846 601	N-848 6010	SW-846 6010/60108	N-848 601	N-846 601	N-846 801	N-846 6010	SW-846 6010/80108	A-846 8010	N-846 801	SW-846 6010/6010B	A.A.6 601	N 848 804	00000	100 000 A	W-040 001	N-946 601	W-846 601	N-846 601	N-848 601	N-848 601	N-846 601	SW-848 8010/8010B	N-848 601	V-046 901	V-040 001	W-046 601	W-040 001	W-846 601	V-848 601	N-646 6010	V-848 6010	N-848 BO10	V-846 601	V-846 6010	V-04.5 BUT	V-945 601	SW-646 6010/60108	100000	00000	SW-945 9010/90108	2000000	20000	SW-846 POLUMOTOR	200	V 8/8 804	V-AKR ROT	SW-646 6010/60108	N-846 601	V-846 801	V-846 6010	V-646 6010	V-846 8010	V-846 6010	V-846 6010	V-846 6010	V-646 6010	V-946 6010	V-040 001C	SW-646 6010/6010B	V-040 DOT	SW-546 6010/6010B	V-046 001	SW-845 BOTOMBOTOR	V-846 6010	SW-848 6010/60108	SW-648 6010/60108	SW-846 6010/60108	SW-646 6010/60108	
									ŧ		1		1	- 1		- 1		- 1	- 1	- 1		- 1	- 2	1	- 1		- 1				- 1		- 1	•	1	- 1	- 1	ł	-1	i	Л.	ıi.	-1-	. I	1	_1_		1			1 1			- 1		- 1	- 1	ł	Ţ	т	Т	Т	1	7	1	1	T	1	
-MET	MET	MET-4-023	MET	MET	MET	META	7	MET	MET	WET-A-023		MET A MA	ME	ME I A OZ	N.	Y E	ME	MET	WET.	MET.	3	MET-A-023	WEL	MET	ME	MET-A-023		-	1	¥ET.	:	¥	WE -	MET-A-023		MET-A-023	META-023	CONT.	MC -4-023	ME -A-023	LACT A AND		META M	1	ME I T-023	META-023	META	META	MET-A-023	MET.	MET.	MET.A	MET-A-023	META	MET.	META	¥ .	4	4	MET-A-023	¥ .	ME I A UZ	META-023	MET-A-023	WET-A-023	WE!	MET-A-023	MET-A-02	
			:					:			!																																		-																	***************************************							
POS:	100	3	S	3	S	3	3	705	Sol	Sol	3	3	3	9	3	3	S	3	3	3	3	3	3	8	8	3	3	S	3	306	3	3	9	3	8	3	3	0	8	8 3	3 3	5	3	3	3	3	3	3	3	38	3	Jog Sol	Jos.	3	3	3	3	3	3	3	3	8	3	3	3	3	3	3	
100,420-1	1004.001	02E0001-024-001	424.001	100 720	10017001	-025.001	88	00 520	-025 001	98	00	merchan me mi	5 6	MENON-WOOD	BC	820	0ZE 0001-0Z5.001	83.89	QZE0001-025.001	83.80	88.89	02E0001-025.001	83.8	88	20.00	CZE 0001-CZ3.001	8	8	22.001	1005.001	88.00	83.69	8	88	8	8	GZE0001-GZ5.001	3 3	3		3 2	3 3	3 8	3 8	20.00		8	98.00	455 001	00.00	100 520	-005 -001	-025.001	8	£3.8	888	8	8	8	8	8	800	800	838	8	8	02E0001-025.001	02E0001-025.001	
02E0001	600328	200	0003Z	0003Z	02E0001	02E0001	8800	000320	000	000	90				000	8	00E	00E	00E00	65 55 55 55 55 55 55 55 55 55 55 55 55 5	02E000	02E0001	25.000	8	0000	CZE OOO	8	200	9	02E0001	2E 000	25000	600	35	8	2000	2500										2000	900	00E000	02E0001	02E0001	02E0001	02E0001	00E0001	02E0001	02E0001	000	25000	CE COO			02500		2500	02E000	000E	5	G2E0001	





PC108019 HPGe 02E0002-001 123 PAD SOIL SAMPLE CESIU	T	7440-22-4 7440-22-4 7440-22-5 7440-22-6 7440-22-6 7440-22-6 7440-22-6 7440-22-6 7440-23-1 7440-23-1 7440-23-1 7440-31-5 7440-31-5 7440-31-5 7440-32-6	944 1000 377 9.4 9.6 9.7 107 0.771 1.8 89 91 1.8 89 92 3222 13.1 111 30.3 89 94 1.23 0.599 21.5 0 0 1.04 0.764	WREC WREC WREC WREC WREC WREC WREC WREC	B B B		107	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.44 0.47 0.35
DECEMBER Section Sec	T	7440-22-4 7440-23-5 7440-23-5 7440-23-5 7440-24-6 7440-24-6 7440-28-0 7440-28-0 7440-28-0 7440-28-0 7440-28-0 7440-31-5 7440-31-5 7440-31-5 7440-32-6	944 1000 3777 9.4 98-6 107 0.717 1.8 89 91 1.8 91 92 89 90 92 13.1 30.3 89 94 1.22 1.0 0 0 1.0 4 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76	MREC MGKG MGKG MGKG MGKG MGKG MGKG MGKG MGK	B B	3		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.039 0.44 0.47
DECEMBER Section Sec	T	7440-23-5 7440-23-5 7440-23-6 7440-24-6 7440-24-6 7440-22-6 7440-28-0 7440-28-0 7440-28-0 7440-31-5 7440-31-5 7440-31-5 7440-31-5 7440-32-6	944 1000 3777 9.4 98-6 107 0.717 1.8 89 91 1.8 91 92 89 90 92 13.1 30.3 89 94 1.22 1.0 0 0 1.0 4 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76	MREC MGKG MGKG MGKG MGKG MGKG MGKG MGKG MGK	B B	3		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.039 0.44 0.47
DECEROIN 425.001 Soil MET 4-4273 SW-4-66 001090106 DECEROIN 425 TEST SERVIVAL GRAB SIMPL. STORT SERVIVAL GRAB SIMPL.	UM	7440-23-5 7440-24-6 7440-24-6 7440-24-6 7440-28-0 7440-28-0 7440-28-0 7440-28-0 7440-31-5 7440-31-5 7440-31-5 7440-32-6 7440-32-6 7440-32-6 7440-8-6 7440-8-6 7440-8-6 7440-8-6 7440-8-6 7440-8-6 7440-8-6	377 9.4 96 96 107 0.77 8.5 91 1.8.8 99 91 92 93 92 13.1 90 94 1.23 1.6 0.599 0.1 1.0 0.764 0.764	MG/KG MG/KG WREC WREC WREC WREC WREC WREC WREC WREC	B B	3		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.039 0.44 0.47
	### ### ### ### ### ### ### ### ### ##	7440-24-6 7440-24-6 7440-24-6 7440-28-0 7440-28-0 7440-28-0 7440-31-5 7440-31-5 7440-31-5 7440-31-6 7440-32-6	9.4 966 1077 0.717 858 991 1.8 991 922 833 322 13.1 992 1111 30.3 89 94 1.23 1.6 0.599 2.1.5 0 0.7 0.7 0.7 0.7 0.7 0.7	MG/KG W/REC MG/KG W/REC	B B	3		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.039 0.44 0.47
CONTROL CONT	titum 7 LLUM 7 1 LL	7440-24-6 77440-28-0 77440-28-0 77440-28-0 77440-28-0 77440-31-5 77440-31-5 77440-31-5 77440-31-5 77440-32-6 77440-32-6 77440-32-6 77440-32-6 77440-68-6	96 107 0.71 858 91 1.8 92 322 13.1 99 94 1.23 0.599 21.5 0.0 0.764	WREC WREC WREC WREC WREC WREC WREC WREC	B B	3		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.44
	tbum	7440-24-6 7440-28-0 7440-28-0 7440-28-0 7440-31-5 7440-31-5 7440-31-5 7440-31-5 7440-32-6 7440-32-6 7440-32-6 7440-32-6 7440-68-6	107 0.71 85 91 1.8 91 92 93 94 94 13.1 30.3 89 94 1.23 1.6 0.599 21.5 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	WREC WAREC WREC WREC WREC WREC WREC WREC WREC W	8	3		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.47
CECCODI-CES. DOI Sol MET-A-CES. SW-346 601090108 CECCODI-CES. 123 SLAB REMOVAL GRAS SMPL. THALL CECCODI-CES. 125 SLAB REMOVAL GRAS SMPL. THAN CECCODI	LIUM	7440-28-0 7440-28-0 7440-28-0 7440-31-5 7440-31-5 7440-31-5 7440-32-6 7440-32-6 7440-32-6 7440-32-6 7440-32-6 7440-32-6 7440-68-6 7440-68-6 7440-68-6 7440-68-6 7440-68-6 7440-68-6 7440-68-6 7440-68-6 7440-68-6 7440-68-6	0.77 89 91 1.8 91 92 89 98 98 98 98 90 10 11 30.3 89 94 123 1.8 0.599 21.5 0 0 0 20 0 20 0 20 0 0 0 0 0	MG/KG W/REC	8	3		0 0 0	0.47
CECCODI-025.001 Soil MET-A-023 SW-346 601090108 DECCODI-025 123 SLAB REMOVAL GRAB SMPL THALL	LLIUM 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7440-28-0 77440-28-0 77440-21-5 7440-31-5 7440-31-5 7440-32-8 7440-32-8 7440-32-8 7440-32-8 7440-62-2 7440-62-2 7440-68-6 7440-68-6 7440-68-6 7440-68-6 7440-68-6	859 91 1.8 91 92 859 96 3222 13.1 97 97 111 20.3 89 94 1.23 1.8 0.599 21.5 0 0 0 1.04 0.764 0.764	SAREC SAREC MAGAG SAREC	B	3		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.47
DECEMPORATION Sol	LLIUM 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7440-28-0 7440-31-5 7440-31-5 7440-31-5 7440-31-6 7440-32-6 7440-32-6 7440-32-6 7440-82-2 7440-82-2 7440-86-6 7440-86-6 7440-86-6 7440-86-6 7440-86-6 7440-86-7 7440-86-7 7440-86-8 7440-86-8	91.8.8 99.1 1.8.8 99.1 1.8.9 99.1 1.8.9 99.1 1.2.3 99.1 1.6.9 99.1 1.2.3 1.6.9 99.1 1.2.3 1.6.9 99.1 1.2.3 0.0 99.1 1.0.4 0.599 0.0 99.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	MREC MGMG MREC MREC MREC MREC MGMG MGMG MGMG MGMG MGMG MGMG MGMG MG	B N	V V	107	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.17
DECEMBER DECEMBER	28 2 4 34 34 34 34 34 34 34 34 34 34 34 34 3	7440-31-5 7440-31-5 7440-31-5 7440-32-6 7440-32-6 7440-32-6 7440-62-2 7440-62-2 7440-62-2 7440-68-6 7440-68-6 7440-68-6 7440-68-6 7440-68-6 7440-68-6 7440-68-6	1.8 91 92 98 98 13.1 94 111 30.3 89 94 1.23 0.599 21.5 0 0 0	MGKG %REC %REC %REC %REC MGKG MGKG MGKG MGKG MGKG MGKG MGKG MGK	2	V V	107	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.17
DECEMON CORP. DECEMON DECEMO	ium 7	7440-31-5 7440-31-5 7440-32-6 7440-32-6 7440-32-6 7440-32-6 7440-62-2 7440-62-2 7440-62-2 7440-68-6 7440-68-6 7440-68-6 7440-68-6 7440-68-6 7440-68-6 7440-68-6 7440-68-6 7440-68-6 7440-68-7440-68-6 7440-68-6 7440-68-6 7440-68-6 7440-68-6 7440-68-6 7440-68-6 7440-68-6 7440-68-6 7440-68-6	91 92 88 98 98 132,1 13,1 99 11,2 94 1,2 1,2 0 0 0 0 1,5 9 0 0 0 0,7 9 0 0 0,7 9 0 0 0,7 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	%REC %REC %REC %REC MG/KG MG/KG %REC %REC %REC %REC %REC %REC %REC %REC	N N	V V	107	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.17
	Jum 7	7440-31-5 7440-32-6 7440-32-6 7440-32-6 7440-32-6 7440-62-2 7440-62-2 7440-68-6 7440-68-6 7440-68-6 7440-88-6 7440-88-7 7440-88-7 7440-88-8 7440-88-8 7440-88-8 7440-88-8 7440-34-8	92 89 96 92 322 13.1 99 111 130.3 89 94 1.5 0.5 99 21.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WREC WREC WREC MGKG MGKG WREC MGKG WREC MGKG WREC PCV9 PCV9 PCV9 PCV9 PCV9 PCV9 PCV9 PCV	N	Ÿ		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	turn turn turn 17 turn 17 turn 17 turn 17 durn 17 durn 17 durn 17 durn 17 28 27 28 27 24 4 14 14 10 26 11 10 26 11 11 10 10 10 10 10 10 10 10 10 10 10	7440-32-6 7440-32-6 7440-32-6 7440-82-2 7440-82-2 7440-82-2 7440-86-6 7440-86-6 7440-86-6 7440-86-6 7440-86-6 7440-86-6 7440-86-6	89 98 90 322 13.1 99 111 30.3 89 94 1.23 1.6 0.599 21.5 0 0 0 1.04 0.764 0.764	%REC %REC MG/KG MG/KG %REC %REC %REC %REC %REC PCV9 PCV9 PCV9 PCV9 PCV9 PCV9 PCV9 PCV	N	Ÿ		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	turn um um dium 7 dium 7 dium 7 7 20 7 24 1 34 34 34 112 14 10 28 11	7440-32-6 7440-32-6 7440-62-2 7440-62-2 7440-62-2 7440-68-6 7440-68-6 7440-34-8 13966-0-2 13966-0-2	960 3222 13.1 990 1111 30.3 89 94 1.23 1.6 0.599 21.5 0 0 0.764	MREC MGKG MGKG MREC MREC MREC MGKG MREC MREC MREC MREC MREC MREC MREC MREC	2	Ÿ		0 0 0	
	Mum 7 1 1 1 1 1 1 1 1 1	7440-32-6 7440-82-2 7440-82-2 7440-82-2 7440-86-6 7440-86-8 7440-88-8 7440-34-8 13968-0-2	322 13.1 99 111 30.3 89 0.4 1.2 0.599 21.5 0 0 1.0 0 0.764	MG/KG MG/KG MG/KG %REC MG/KG MREC MG/KG MREC MC/Ug pC/Ug	N	Ÿ		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
DECEMON-023.001 Soil MET-A-023 SW-848-80109010B DECEMON-025 123 SLAB REMOVAL GRAB SMPL. Venadi DECEMON-025.001 Soil MET-A-023 SW-848-80109010B DECEMON-025 123 SLAB REMOVAL GRAB SMPL. Venadi DECEMON-025.001 Soil MET-A-023 SW-848-80109010B DECEMON-025 123 SLAB REMOVAL GRAB SMPL. Venadi DECEMON-025.001 Soil MET-A-023 SW-848-80109010B DECEMON-025 123 SLAB REMOVAL GRAB SMPL. Venadi DECEMON-025.001 Soil MET-A-023 SW-848-80109010B DECEMON-025 123 SLAB REMOVAL GRAB SMPL. DECEMON-025.001 Soil MET-A-023 SW-848-80109010B DECEMON-025 123 SLAB REMOVAL GRAB SMPL. DECEMON-025.001 Soil MET-A-023 SW-848-80109010B DECEMON-025 123 SLAB REMOVAL GRAB SMPL. DECEMON-025.001 Soil MET-A-023 SW-848-80109010B DECEMON-025 123 SLAB REMOVAL GRAB SMPL. DECEMON-025.001 Soil RC108019 HPGe DECEMON-001-025 123 FLAB REMOVAL GRAB SMPL. DECEMON-025.001 DECEMON-0	dlum 7 dlum 7 dlum 7 dlum 7 20 7 2 7 2 4 4 1 34 34M 1 12 1 14 1 10 20 11	7440-62-2 7440-62-2 7440-62-2 7440-68-6 7440-68-6 7440-68-6 7440-68-6 7440-68-6 7440-68-7 7440-68-7 7440-68-7 7440-68-8 7440-68-8 7440-68-8 7440-68-8 7440-68-8 7440-68-8 7440-68-8 7440-68-8 7440-68-8 7440-68-8 7440-68-8	13.1 99 1111 30.3 89 94 1.23 1.8 0.599 21.5 0 0 0.764 0.764	MG/KG %REC %REC %REC %REC %REC PCV9 PCV9 PCV9 PCV9 PCV9 PCV9 PCV9 PCV	N	Ÿ		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
MET.A.023 SW-848 601090108 C2E0001-025 123 SLAB REMOVAL GRAB SMPL. Vanadi 02E0001-025 001 Sol	dlum 7 7 7 7 7 7 7 7 7	7440-82-2 7440-82-2 7440-86-6 7440-86-6 7440-86-6 7440-34-8 13966-0-2 13961-52-7 10031-23-9	99 1111 30.3 89 94 1.23 1.6 0.599 21.5 0 0 0.764 0.764	%REC %REC MG/KG %REC pCV0 pCV0 pCV0 pCV0 pCV0 pCV0 pCV0 pCV	N .			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,4
CZE0001-025.001 Sol	dium 7 7 7 7 7 7 7 7 7	7440-62-2 7440-66-6 7440-66-6 7440-66-8 7440-34-8 13966-0-2 13966-0-2	111 30.3 89 94 1.23 1.8 0.559 21.5 0 0 0 1.04 0.764 0.764	%REC MG/KG %REC PCV9 PCV9 PCV9 PCV9 PCV9 PCV9 PCV9 PCV	N	v		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,4
ACCEDIO 1425.001 Sol	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7440-66-6 7440-66-6 7440-66-6 7440-34-8 13966-0-2 13961-32-7 10031-23-9	30.3 89 94 1.23 1.8 0.599 21.5 0 0 1.04 0.764	MG/KG %REC %REC pCV9 pCV9 pCV9 pCV9 pCV9 pCV9 pCV9 pCV		v		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,4
NET-A-023 SW-946 8010/80108 DZE0001-025 123 SLAB REMOVAL GRAB SMPL. Zinc DZE0001-025.001 Sol	7 28 7 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7	7440-86-8 7440-86-8 7440-34-9 13968-0-2 13968-0-2 13961-52-7 10031-23-9	89 94 1.23 1.8 0.599 21.5 0 0 1.04 0.764 0 2.03	%REC %REC pCVg pCVg pCVg pCVg pCVg pCVg pCVg pCV				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
NET-A-023 SW-346 6010/6016 02E0002-001 123 PAD SOL SAMPLE AC-221 125 E0002-001 120 PAD SOL SAMPLE AC-221 125 E0002-001 120 PAD SOL SAMPLE AC-221 125 E0002-001 120 PAD SOL SAMPLE BI-212 126 E0002-001 120 PAD SOL SAMPLE BI-214 126 E0002-001 120 PAD SOL SAMPLE PA-234 126 E0002-001 120 PAD SOL SAMPLE	28 7 2 7 2 4 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7440-86-6 7440-34-8 13968-0-2 13981-52-7 10031-23-9	94 1.23 1.6 0.599 21.5 0 0 1.04 0.764 0.784	%REC pCVg pCVg pCVg pCVg pCVg pCVg pCVg pCV				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
DECE0002-001.001 Sol	22 7 2 4 4 9 4 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1	13968-0-2 13968-0-2 13981-52-7 10031-23-9	1.23 1.8 0.599 21.5 0 0 1.04 0.784 0 2.03	pCi/g pCi/g pCi/g pCi/g pCi/g pCi/g pCi/g pCi/g pCi/g pCi/g pCi/g pCi/g				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
ACCIOBATION Soil RC108019 HPGe QZE0002-001 123 PAD SOIL SAMPLE BI-214	2 4 1 34 34 12 12 14 10 28 11 10 10 10 10 10 10 10 10 10 10 10 10	13968-0-2 13981-52-7 10031-23-9	1.8 0.599 21.5 0 0 1.04 0.764 0 2.03	pCi/g pCi/g pCi/g pCi/g pCi/g pCi/g pCi/g pCi/g pCi/g pCi/g pCi/g				0 0 0	
CECO002-001.001 Soil RC108019 HPGe CECO002-001 123 PAD SOIL SAMPLE B-214	4 1 1 34 34 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13981-52-7 10031-23-9	0.599 21.5 0 0 1.04 0.784 0 2.03	pCi/g				0 0	
CCE0002-001-001 Sol	34 12 12 14 10 10 10 10 11 11 11 11 11 11 11 11 11	13981-52-7 10031-23-9	21.5 0 0 1.04 0.784 0 2.03	pCVg pCVg pCVg pCVg pCVg pCVg pCVg				0	·
ACTOBOTO MPGe QZE0002-001 123 PAD SOB SAMPLE PA-234 PA	34 34M 12 12 14 10 10 10 10 10 11 10 11 11 11 11 11 11	13981-52-7 10031-23-9	0 0 1,04 0,764 0 2,03	pCVg pCVg pCVg pCVg pCVg pCVg pCVg				0	<u>.</u>
APPC	34M 12 14 10 10 10 11 11 11 13	10031-23-9	0 1.04 0.764 0 2.03	pCVg pCVg pCVg pCVg pCVg pCVg				0	<u>.</u>
DECEMBRATE DEC	14 10 128 131 131 131 136 136 136 136 136 136 136	10031-23-9	1.04 0.764 0 2.03	pCVg pCVg pCVg pCVg pCVg				0	<u>.</u>
December 2015 Sol	10 1 28 1 31 08	10031-23-9	0.764 0 2.03 0	pCVg pCVg pCVg pCVg	-		\$40.00 to \$40.00	0	
DEFO002-001-001 Soi	26 1 31 36	10031-23-9	2.03	pCVg pCVg				. 0	
ASP-A-004 ALPHA SPEC 02E0003-001 BU38-0005 B	31		0	pCVg			: 	, 0	
DEF-0002-001-001 Soi	08								
December Sol	38		0.482	-014-				. 0	
CCE0002-001.001 Soi				purg				Ö	
Common	ricium-241 1	14596-10-2		pC//g				0	4
		3967-70-9		pCVg				0	
CECO003-001 002 Soi		4269-63-7		pCVg	i			. 0	
ASP-A-004 ALPHA SPEC 02E0003-001 BU38-0005 Americ 02E0003-001 BU38-0005 Americ 02E0003-001 BU38-0005 Americ 02E0003-001 BU38-0005 Americ 02E0003-001 BU38-0005 BU38-0005 Dutonia 02E0003-001 DUS 02E003-001 BU38-0005 DUS 02E003-001 BU38-0005 DUS 02E003-001 DUS 02E003-001 BU38-0005 DUS 02E003-001 DUS 02E003-001 DUS 02E003-001 BU38-0005 DUS 02E003-001 DUS 02E003-002 DUS 02E003-003 DU		5117-98-1		pCVg				٥.	1
ASP-A-004 ALPHA SPEC 02E0003-001 8U38-0005 Platent 02E0003-001 002 003 003 003 003 004 0		7440-61-1		pCVg	<u>.</u>		_	0	ŧ
02E0003-001.002 Sol (ASP-A-OOI ALPHA SPEC 02E0003-001 BU38-0005 Uranur 02E0003-001.002 Sol (ASP-A-OOI ALPHA SPEC 02E0003-001 BU38-0005 Uranur 02E0003-001.002 Sol (ASP-A-OOI ALPHA SPEC 02E0003-002 BU38-0006 Uranur 02E0003-002.002 Sol (ASP-A-OOI ALPHA SPEC 02E0003-002 BU38-0006 Americ 02E0003-002.002 Sol (ASP-A-OOI ALPHA SPEC 02E0003-002 BU38-0006 Plutonir 02E0003-002.002 Sol (ASP-A-OOI ALPHA SPEC 02E0003-002 BU38-0006 Uranur 02E0003-002.002 Sol (ASP-A-OOI ALPHA SPEC 02E0003-003 B		14596-10-2			13			1	0.0368
ASP-A-004 ALPHA SPEC 02E0003-001 8U38-0005 Urantar 02E0003-001 02E003-001 02E003-001 02E003-001 02E003-001 02E003-001 02E003-001 02E003-002 02E003-003 02E003		10-12-8		PCVG	U				0.111
ASP-A-004 ALPHA-SPEC 02E0003-001 BU38-0005 Urankr 02E0003-002 Sol ASP-A-004 ALPHA-SPEC 02E0003-002 BU38-0005 Aneric 02E0003-002 Sol ASP-A-004 ALPHA-SPEC 02E0003-002 BU38-0006 Patron 02E0003-002 Sol ASP-A-004 ALPHA-SPEC 02E0003-002 BU38-0006 Urankr 02E0003-002 Sol ASP-A-004 ALPHA-SPEC 02E0003-002 BU38-0006 Urankr 02E0003-002 Sol ASP-A-004 ALPHA-SPEC 02E0003-002 BU38-0006 Urankr 02E0003-002 Sol ASP-A-004 ALPHA-SPEC 02E0003-002 BU38-0007 Urankr 02E0003-003 O2E Sol ASP-A-004 ALPHA-SPEC 02E0003-003 BU38-0007 Patron 02E0003-003 O2E Sol ASP-A-004 ALPHA-SPEC 02E003-003 BU38-0007 Patron 02E0003-003 O2E Sol ASP-A-004 ALPHA-SPEC 02E003-003 BU38-0007 Urankr 02E0003-003 O2E Sol ASP-A-004 ALPHA-SPEC 02E0003-003 BU38-0007 Urankr 02E0003-003 D3B-0007 Urankr 02		11-08-5		PCVG	!!				0,109
02E0003-002.002 Soil ASP-A-004 ALPHA SPEC 02E0003-002 BU38-0005 Americ 02E0003-002.002 Soil ASP-A-004 ALPHA SPEC 02E0003-002 BU38-0006 Plutonia 02E0003-002.002 Soil ASP-A-004 ALPHA SPEC 02E0003-002 BU38-0006 Urantur 02E0003-002.002 Soil ASP-A-004 ALPHA SPEC 02E0003-002 BU38-0006 Urantur 02E0003-002.002 Soil ASP-A-004 ALPHA SPEC 02E0003-002 BU38-0006 Urantur 02E0003-003.002 Soil ASP-A-004 ALPHA SPEC 02E0003-003 BU38-0007 Americ 02E0003-003.002 Soil ASP-A-004 ALPHA SPEC 02E0003-003 BU38-0007 Plutonia 02E0003-003.002 Soil ASP-A-004 ALPHA SPEC 02E0003-003 BU38-0007 Plutonia 02E0003-003.002 Soil ASP-A-004 ALPHA SPEC 02E0003-003 BU38-0007 Urantur 02E0003-003.002 Soil ASP-A-004 ALPHA SPEC 02E0003-003		15117-96-1		PCVG			-		0.0537
ASP-A-004 ALPHA SPEC 02E0003-002 BU38-0006 Putors		7440-61-1		PCVG	!!				0.0909
ASP-A-004 ALPHA SPEC 02E0003-002 BU38-0006 Urantur 02E0003-002 Sol ASP-A-004 ALPHA SPEC 02E0003-002 BU38-0006 Urantur 02E0003-002 O2E003-003 D2E003-003 O2E003-003 O2E		4596-10-2		PCVG	U				0.066
ASP-A-004 ALPHA SPEC 02E0003-002 8U38-0006 Urantur Ura		10-12-8	-0.0212		U				0.167
02E0003-002.002 Sol ASP-A-004 ALPHA SPEC 02E0003-002 BU38-0008 Uranlur 02E0003-003.002 Sol ASP-A-004 ALPHA SPEC 02E0003-003 BU38-0007 Americ 02E0003-003.002 Sol ASP-A-004 ALPHA SPEC 02E0003-003 BU38-0007 Plutonlu 02E0003-003.002 Sol ASP-A-004 ALPHA SPEC 02E0003-003 BU38-0007 Uranlur		1-08-5		PCVG	J			: :	0.107
02E0003-000.002 Sol ASP-A-004 ALPHA SPEC 02E0003-003 BU38-0007 Americ 02E0003-003.002 Sol ASP-A-004 ALPHA SPEC 02E0003-003 BU38-0007 Plutonk 02E0003-003.002 Sol ASP-A-004 ALPHA SPEC 02E0003-003 BU38-0007 Uranku 02E0003-003.002 Sol ASP-A-004 ALPHA SPEC 02E0003-003 BU38-0007 Uranku 02E0003-003.002 Sol ASP-A-004 ALPHA SPEC 02E0003-003 BU38-0007 Uranku		15117-96-1	-0.00165		U			;	0.101
02E0003-003.002 Sol ASP-A-004 ALPHA SPEC 02E0003-003 BU38-0007 Pktork 02E0003-003.002 Sol ASP-A-004 ALPHA SPEC 02E0003-003 BU38-0007 Urantur 02E0003-003.002 Sol ASP-A-004 ALPHA SPEC 02E0003-003 BU38-0007 Urantur 02E0003-003.002 Sol ASP-A-004 ALPHA SPEC 02E0003-003 BU38-0007 Urantur		7440-61-1 14596-10-2	0.578	PCVG	<u>.</u>			- -	0.0713
02E0003-003.002 Soil ASP-A-004 ALPHA SPEC 02E0003-003 BU38-0007 Urantur 02E0003-003.002 Soil ASP-A-004 ALPHA SPEC 02E0003-003 BU38-0007 Urantur		10-12-8	0.0425		<u>.</u>				0,105
02E0003-003.002 Soil ASP-A-004 ALPHA SPEC 02E0003-003 BU38-0007 Uraniur		1-08-5			<u> </u>			+ +	0,105
		15117-96-1	-0.00154		<u>.</u>			-{ }-	0.0947
02E0003-003.002 Soil ASP-A-004 ALPHA SPEC 02E0003-003 BU38-0007 Uraniur		7440-61-1			1				0.0752
		4598-10-2	0.0127		Ü				0.027
		0-12-8	-0.0129		Ü			1 1	0.124
02E0003-004.002 Soil ASP-A-004 ALPHA SPEC 02E003-004 BU38-0006 Uranium		1-08-5		PCVG	<u> </u>				0.0846
02E0003-004.002 Soil ASP-A-004 ALPHA SPEC 02E0003-004 BU38-0006 Urantur		15117-96-1	0.0324		Ū				0 0687
		440-61-1		PCVG	j - i	!			0.0685
02E0008-001 002 Sol ASP-A-004 ALPHA SPEC 02E0008-001 Northern Process Line America		4596-10-2	0.0277		U				0.0829
		4596-10-2	0.0762		Ü	;		• •	0.1
02E0008-001.002 Soil ASP-A-004 ALPHA SPEC 02E0008-001 Northern Process Line Plutonia		0-12-8		PCVG	Ū				0.144
02E0008-001,002 Soll ASP-A-004 ALPHA SPEC 02E0008-001 Northern Process Line Plutonik	icium-241	10-12-8		PCVG	J			· · · · ·	0.0526
02E0008-001.002 Solt ASP-A-004 ALPHA SPEC 02E0008-001 Northern Process Line Uranium	icium-241 1 nium-239/240 1	1-08-5		PCVG	J	1			0.144
02E0008-001.002 Soil ASP-A-004 ALPHA SPEC 02E0008-001 Northern Process Line Uranium	1ckum-241 1 1 nkum-239/240 1 1 nkum-239/240 1 1 um-234 1 1	1-08-5	0.453	PCVG	J			1 1	0.147
02E0008-001.002 Soll ASP-A-004 ALPHA SPEC 02E0008-001 Northern Process Line Uranium	1ckum-241 1 1 nkum-239/240 1 1 nkum-239/240 1 1 um-234 1 1	5117-96-1	-0.00565	PCVG	U			1	0.144
02E0008-001.002 Soll ASP-A-004 ALPHA SPEC 02E0008-001 Northern Process Line Uranium	icium-241 1 1 nium-239/240 1 1 nium-239/240 1 1 num-234 1 1 um-234 1			PCVG	U				0.126
02E0008-001.002 Sol ASP-A-004 ALPHA SPEC 02E0008-001 Northern Process Line Uranium	icium-241 1 1 1 1 1 1 1 1 1	5117-96-1			J				0.144
02E0008-001.002	ickum-241 1 nkum-239240 1 nkum-239240 1 um-234 1 um-234 1 um-235 1 um-235 1 um-235 1 um-236 7	440-61-1	0.332						
02E0008-001.003 Soll RC10B019 HPGe 02E0008-001 Northern Process Line AC-228	icium-241 1 1 1 1 1 1 1 1 1	7440-61-1 7440-61-1	0.744	PCVG	J				0.0822
02E0008-001.003 Soll RC10B019 HPGe 02E0008-001 Northern Process Line BI-212	icium-241 1 1 1 1 1 1 1 1 1	440-61-1	0.744 1.68		j			0	



F		1	75.45.73.WV		THE STATE OF THE S		SHURES		BEST OF		Y/V	SVEVASS.	212	100
to the state of th	اسال ما المنشية المارية	1	PARTIENT CODE OF		Mark Statement of the	Hel thire ereland the tree week	HECAS NO	W.RESULTI.	UNITS	1 OUG	:OUL	e de la companya de l	ST NO.	1000
02E0008-001.003	Sof		HPGe	02E0008-001	Northern Process Line	BI-214 CO-37	13981-50-5	0.61	2 pCVg	+				0
02E0008-001.003	Sol	RC108019 RC108019	HPGe HPGe	02E0008-001	Northern Process Line Northern Process Line	K-40	13966-0-2		PI pCVg	· 				O:
02E0008-001,003	Sol	RC10B019	HPGe	02E0008-001	Northern Process Line	PA-234	1133000		pCi/g	1				o
02E0008-001.003	Sol	RC10B019	HPGe	02E0008-001	Northern Process Line	PA-234M			pCVg					0
02E0008-001.003	Sol	RC108019	HPGe	02E0008-001	Northern Process Line	PB-212			pCVg					0
02E0008-001,003	Soll	RC10B019	HPGe	02E0008-001	Northern Process Line	PB-214) pCi/g					0
02E0008-001.003	Sol	RC10B019 RC10B019	HPGe HPGe	02E0008-001	Northern Process Line Northern Process Line	PO-210 RA-226	13981-52-7		pCVg				- ! '	0:
02E0008-001.003	Sol	RC108019	HPGe	02E0008-001	Northern Process Line	!Th-231	110031-23-8		pC/g				- 4	ŏ
02E0008-001.003	Sol	RC108019	HPGe	02E0008-001	Northern Process Line	TL-208	†		pCVq	7	i	-	•	ō
02E0008-001.003	Soll	RC108019	HPGe	02E0008-001	Northern Process Line	Americium-241	14596-10-2) pCVg		[0] 4
02E0008-001.003	Sof	RC10B019	HPGe	02E0008-001	Northern Process Line	THORIUM-230	14269-63-7		D PCV9		·			o,
02E0008-001.003	Sol	RC10B019	HPGe	02E0008-001	Northern Process Line	Uranium-235	15117-96-1 7440-61-1		pCVg					0 1
02E0006-001.003 02E0006-002.001	Sol	RC108019 RC108019	HPGe ·	02E0008-001	Northern Process Line Northern Point	Uranium-238 AC-228	7440-34-8		pCVg	-		·- •	•	ر. ا
02E0008-002.001	Sol	RC108019	HPGe	02E0008-002	Northern Point	B-212	1111111		pC/g			*		ŏ. I
02E0008-002.001	Soll	RC108019	HPGe	02E0008-002	Northern Point	BF214			pCVg	1			,	ō
02E0008-002.001	Soil	RC10B019	HPGe	02E0008-002	Northern Point	K-40	13966-0-2		pCVg			**	: '	o:
02E0008-002.001	Sol	RC108019	HPGe	02E0008-002	Northern Point	PA-234			pCl/g		:			0
02E0006-002.001	Sol	RC10B019	HPGe	02E0008-002	Northern Point	PA-234M	····		pCVg	-	·- · · · · · · · · · · · · · ·			<u> </u>
02E0006-002.001 02E0006-002.001	Sol	RC10B019 RC10B019	HPGe	02E0008-002	Northern Point Northern Point	PB-212 PB-214	. .		pCVg		;			
02E0008-002.001	Sol	RC10B019	HPGe	02E0008-002	Northern Point	PO-210	13981-52-7		pC/g	+ ;				Ď.
02E0008-002.001	Sol	RC108019	HPGe	02E0008-002	Northern Point	RA-226	10031-23-9		pCVg	T ;				o'
02E0008-002.001	Sol	RC10B019	HPGe	02E0008-002	Northern Point	Th-231			pC/g					ō
02E0008-002.001	Sol	RC10B019	HPGe	02E0008-002	Northern Point	TL-208			pCVg		. !			
02E0008-002.001	Sol	RC108019 RC108019	HPGe	02E0008-002	Northern Point	Americium-241 THORIUM-230	14596-10-2 14269-63-7		pCVg					0 4
02E0008-002.001 02E0008-002.001	Soll	RC10B019	HPGe HPGe	02E0008-002	Northern Point Northern Point	Uranium-235	15117-96-1		jeCire	+i				
02E0008-002.001	Sol	RC108019	HPGe	02E0008-002	Northern Point	Uranium-238	7440-61-1		pCiro				1 -	š · · · · · · · · · · · · · · · · · · ·
02E0008-002.002	Sol	ASP-A-004	ALPHA SPEC	02E0008-002	Northern Point	Americium-241	14596-10-2	0.018	PCVG	U				0.0301
02E0008-002.002	Sol	ASP-A-004	ALPHA SPEC	02E0008-002	Northern Point	Plutonium-239/240	10-12-8		PCVG	Ü				0.257
02E0008-002.002	Sol	ASP-A-004	ALPHA SPEC	02E0008-002	Northern Point	Uranium-234	11-08-5		PCVG	<u> </u>				0.127
02E0008-002.002 02E0008-002.002	Soil	ASP-A-004 ASP-A-004	ALPHA SPEC	02E0008-002 02E0008-002	Northern Point Northern Point	Uranium-235 Uranium-238	15117-96-1 7440-61-1		PCVG		}		.1	0.0446 0.0445
02E0008-003.001	Sof	RC10B019	HPGe	02E0008-003	Mid-Point	AC-228	7440-34-8		pCVg				٠,	. 0.04-3
02E0006-003.001	Sol	RC10B019	HPGe	02E0008-003	Mid-Point	BI-212	<u> </u>		pCVp				 ; · · ·	ō
02E0008-003.001	Sol	RC10B019	HPGe	02E0008-003	Mid-Point	BI-214			pCl/g					0,
02E0008-003.001	Sol	RC10B019	HPGe	02E0008-003	Mid-Point	K-40	13966-0-2		pCVg					0
02E0008-003.001	Sol	RC10B019	HPGe	02E0008-003	Mid-Point	PA-234	ļ		pCi/g					<u></u>
02E0008-003.001 02E0008-003.001	Sof	RC10B019 RC10B019	HPGe HPGe	02E0008-003	Mid-Point Mid-Point	PA-234M PB-212	 		pCVg					
02E0008-003.001	Sol	RC10B019	HPGe :	02E0008-003	Mid-Point	PB-214	 		pC/g	· †				o.
02E0006-003.001	Sof	RC10B019	HPGe :	02E0008-003	Mid-Point	PO-210	13981-52-7		pCVg					0.
02E0008-003.001	Sol	RC108019	HPGe	02E0008-003	Mid-Point	RA-226	10031-23-9		PCVg					0:
02E0008-003.001	Sol	RC108019	HPGe	02E0008-003	Mid-Point	Th-231	ļ		pCi/g	-				0;
02E0008-003.001	Sol	RC10B019	HPGe	02E0008-003	Mid-Point	TL-208	14596-10-2		pC/g	-	j			<u>,</u>
02E0008-003.001 02E0008-003.001	Sol	RC10B019 RC10B019	HPGe HPGe	02E0008-003 02E0008-003	Mid-Point Mid-Point	Americium-241 THORIUM-230	14269-63-7		pCVg					Š:
02E0008-003.001	Sol	RC108019	HPGe	02E0008-003	Mid-Point	Uranium-235	15117-96-1		PCV9					
02E0008-003.001	Sol	RC108019	HPGe	02E0008-003	Mid-Point	Uranium-238	7440-81-1) pCVg					o a
02E0008-003.002	Sol	ASP-A-004	ALPHA SPEC	02E0008-003	Mid-Point	Americium-241	14598-10-2	0,00050	PCVG	Ü				0.0455
02E0008-003,002	Sol	ASP-A-004	ALPHA SPEC	02E0008-003	Mid-Point	Plutonium-239/240	10-12-8		PCVG	U	<u></u>			0.178
02E0008-003.002	Sol	ASP-A-004	ALPHA SPEC	02E0008-003	Mid-Point	Uranium-234	11-08-5		PCVG	-			- 1	0.0745
02E0008-003.002 02E0008-003.002	Sol	ASP-A-004 ASP-A-004	ALPHA SPEC	02E0008-003 02E0008-003	Mid-Point Mid-Point	Uranium-235 Uranium-238	7440-61-1		PCVG	-15				0.106
02E0008-004.001	Sol	RC108019	HPGe	02E0008-003	Southern Point	AC-228	7440-34-8		pCVg	╅				5 5
02E0008-004.001	Sol	RC108019	HPGe	02E0008-004	Southern Point	BI-212		1.1	pCVg	1			' '	o
02E0008-004.001	Soll	RC10B019	HPGe	02E0008-004	Southern Point	BI-214			pCVg	J l			. ! . !	P
02E0008-004.001	Sol	RC108019	HPGe	02E0008-004	Southern Point	K-40	13966-0-2		I pCVg	 	$-\!\!-\!$?
02E0008-004.001	Sol	RC108019	HPGe	02E0008-004	Southern Point	PA-234			pCl/g					8:
02E0008-004.001 02E0008-004.001	Sol	RC10B019 RC10B019	HPGe HPGe	02E0008-004 02E0008-004	Southern Point Southern Point	PA-234M PB-212	i		pCi/g	-				6
02E0008-004.001	Sol	RC108019	HPGe	02E0008-004	Southern Point	PB-214			pCV ₀					5
02E0008-004.001	Sol	RC108019	HPGe	02E0008-004	Southern Point	PO-210	13981-52-7		pCV ₀					0:
02E0008-004.001	Soll	RC10B019	HPGe	02E0008-004	Southern Point	RA-226	10031-23-9		pCVg]				2
02E0008-004.001	Sol	RC10B019	HPGe	02E0008-004	Southern Point	Th-231			pCVg	+				0
02E0008-004.001	Sol	RC108019	HPGe	02E0008-004	Southern Point	TL-208	14596-10-2		pCVg	┼ ──┤	+			0 4
02E0008-004.001 02E0008-004.001	Soil	RC108019 RC108019	HPGe HPGe	02E0008-004 02E0008-004	Southern Point Southern Point	Americium-241 THORIUM-230	14269-63-7		pCVg	+				0
	1200	1457166019	ICTUE	10450000-004	LOUGHTHI FURX .	I T U T U T T T T T T T T T T T T T T T	117405-03-1	· '	- KANAT	1				

9690'0				n	PC/VG	1510.0	1-96-71161	Uranium-235	BU39-0005	25E0008-007		100-A-92A		
1690'0				ri		268.0	5-80-11	bcs-mulnanU	BU39-0005	02E0008-007		100-A-92A		
C+1.0		·		n		£8£00.0-	10-15-8	Phonium-239/240	BU39-0005	02E0009-007	VI PHA SPEC	100-A-92A		
0.0329		1		ni		620.0	14596-10-2	Americium-241	BU39-0005	200-9000 BZC	VIDHY SPEC	100-A-92A		£0000-000-000
9	0				DCN8	827.0	1-19-0117	865-mulmanU	BN39-0002	200-9000 3ZC		RC108019		100,100-000035
	0	· · · · · · · · · · · · · · · · · · ·	1		6/JO	0	1-96-21151	Uranlum-235	BU39-0005	02E0009-007		RC109019		
	0				6/20		14269-63-7	OCS-MUISIOHT	BU39-0005	700-8000 3ZC		RC108019	Io8	
7	0			_	DCN9		14596-10-2	Americkum-241	BU39-0005	O2E0008-007		61080129		
	0					817.0	. <u>. </u>	802-17	BU39-0005	2009-001		BC108013	los	
	0			i	DCi/g		·	16541	9000-6EN8	700-8000350		RC108019	POS	
	0			i	DCVa	5.99	9-CS-1 cool	8A-226	8039-0009	02E0008-007		RC108019		
	0	:		1		2.18	1	RA-224	8009-8EN8	000-6000350		RC108019	106	100.700-600035
	0	;	ļ ļ		6400		1-52-18961	PO-210	8039-0009	05E0009-001		BC108019	105	100,700-600035
	2				DCN8			bB-St4	8039-0005 8039-0006	02E0008-007		RC108019		
	0	ļ			6430			PB-212	8039-0008	XE0009-003		RC108019		100 700 8000 35
	, o		 		DCND			PA-234	8039-0008	05E0008-007		RC108019	IOS	100,700-800035
	·	· · · · · · · · · · · · · · · · · · ·						NPAL-233	8038-0008	400-9000320		RC108019		
	0	 				8.7 <u>S</u>	Z-0-996E1	K-10	BU39-0005	400-9000 3ZC		RC108019		
	0	 				817.0		BFS14	8038-0009	700-60003SQ		RC108019		
	0				Bend	2.08		81515	BU39-0005	£00-9000 3Z0		RC108019		100.700-80003Z
	0	;			6/10		8-96-0997	VC-359	BU39-0005	Z00-9000 3Z0		RC108019		
LL110.0				ri		108.0	1-19-0117	0.00 min 238	123 Emergency S.E. Process Line	900-9000 3Z		HOO-A-92A		
£660'0				'n		C+20.0	1-86-11181	Uramium-235	123 Emergency S.E. Process Line	900-9000320		100-Y-dSY		
11.0				<u></u> -		696 0	\$-80-LL	Uranium-234	123 Emergency S.E. Process Line	900-90003ZC		100-A-92A		
110		***************************************		'n		\$110.0-	10-15-6	Piutonium-239/240	123 Emergency S.E. Procésa Line	900-9000 3Z		100-A-92A		
781.0				- 6		1150.0-	14596-10-2	Americium-241	123 Emergency S.E. Process Line	. 900-9000 3ZC		100-A-92A	POS	2E0009-000-000
	0	i			bCN8		1-19-011	Uranium-238	123 Emergency S.E. Process Line	900-9000 3ZC		RC108019	906	100,800-800035
ĭ	ŏ				DCN0		1-96-11151	Urantum-235	123 Emergency S.E. Process Line	• 900-9000 3Z		RC108019		
	ō				BADD.		14269-63-7	THORIUM-230	123 Emergency S.E. Process Line			RC108019	Ios	100.800-80003S
,	ŏ				5cg8		Z-01-98591	1 b S - mulchem A	123 Emergency S.E. Process Line		HPG6	RC108019	IoS	100.800-800035
1 '	0				DCN8	034	1	11-208	123 Emergency S.E. Process Une	0SE0009-009	HPGe	RC108019	108	100,800-800032
٠	o				DCN3	0		16241	123 Emergency S.E. Process Line	05E0008-008	HPGe	RC108019	IOS	
١.	0 -			1	bc _N 8	0	10031-23-9	RA-226	123 Emergency S.E. Process Line	02E0009-009	HPGe	RC108019	108	
	o ·	:			bCN6	0	13981-52-7	PO-210	123 Emergency S.E. Process Line	03E0009-009	HPGe	RC108019		
٠	0	7				811.0	1	PB-214	123 Emergency S.E. Process Line	900-9000 3Z0		RC108019		
l:	0			1		107.0		bB-515	123 Emergency S.E. Process Line	02E0008-008		RC108019		
l	0				DCN8			PA-234M	123 Emergency S.E. Process Une	05E0008-008		RC108019	108	
	0				рсид			PA-234	123 Emergency S.E. Process Line	05E0008-008		RC108019		
	0					12.3	13966-0-2	K-10	123 Emergency S.E. Process Line	02€0009-009		RC108019		
<u>'</u>	0	ļ			DCN8			81214	123 Emergency S.E. Process Line	02E0009-009		RC108019	los	
	0	<u> </u>			DCN8		<u> </u>	BF513	123 Emergency S.E. Process Line	0SE0009-009		RC108019	IOS	
	۰	!			pCVg		8-96-0997	VC-339	123 Emergency S.E. Process Line	05E0009-009		RC108019	106	
6190'0		!		[]		159.0	1-19-0117	SCS-mulnanU	Souther Point Dup Guther Point Dup	05E0009-009	VIDHY 2DEC	100-A-92A	108	
0.0286						9990.0	1-96-71161	Uranium-234	Souther Point Dup	005E0008-009	ALPHA SPEC	HOO-Y-dSY	108	
811.0 6890.0				r		150.0	9-90-11	Plutonium-239/240	Souther Point Dup	005E0008-009		100-A-92A	108	
	- •			-:-		Z9600'0	10-13-9	Americium-241	Souther Point Dup	900-9000320		100-A-92A	los l	
65100	•			11	PCN3	17700.0-	1-18-0447	SCS-mulmanU	Southern Point Dup	900-9000320	HPG6	RC108019		
·	0	···			PCN9		1-96-21151	305-minsiU	gud Inlog martinos	02E0008-006	HPGe	RC108019		
	0	 	—— <u>і</u> —	-+	PCM		14269-63-7	DES-MUIROHT	quO miod mentuos	05E0009-009	90dH	RC108019		
	0	i		+	6/30		14596-10-2	Americum-241	Southern Point Dup	900-9000 3Z0	ньсе	RC108019		
	0	j			6/30 bc/\0		-	TL-208	Southern Point Dup	05E0009-009	HPGe	RC108019		
	-	 		-	pci/o		 	15.231	Southern Point Dup	0SE0009-009	ньс е	RC108019		
	0			- †	DCN8		6-62-16001	BA-226	Southern Point Dup	05E0009-009	MPG6	RC108019	POS	ZE0009-009'001
	0			i	DCN0		13961-52-7	PO-210	Southern Point Dup	05E0009-009	HPG6	RC108019	IOS.	SE0008-000.001
	ŏ					877.0	T	bB-51¢	Southern Point Dup	900-9000 3ZC	HPG6	RC108019	IOS	SE0009-009'004
	0	1i			bCN8		T	DB-515	Southern Point Dup	05E0009-009		RC108019		100,800-8000,35
	ō			\neg	DCMB		T	PA-234M	Southern Point Dup	900-9000 3Z0	HPGe	RC108019		SE0009-009'001
	Ö	i			pc/9		7	PA-234	Southern Point Dup	900-9000 3ZC	HPGe	RC108019		2E0009-009:001
. :	0				bCN3		13966-0-2	K-40	Southern Point Dup	05E0009-009		RC108019		100.800-8000.35
	0					888.0		BF514	QUO Inio9 mentace	0SE 0009-009		RC108019		100,800-800035
	0				bcn8			81515	Southern Point Dup	02E 0009-009		RC108019		100,800-800032
	ō				DCN8		8-46-0447	VC-228	Southern Point Dup	900-9000 320		RC108019		100.800-800035
Z 590 0				٢		978.0	1-19-0114	8£S-muinariU	Inio9 marbuo8	900-9000 3Z0	ALPHA SPEC	100-A-92A	log	20009-0091005
0.0263				n		6810.0	1-98-11151	252-mulmanU	knio9 marthuo2	9009-004		100-A-92A	los	SE0006-001,002
\$280.0				٢	PCVG		8-80-11	AES-mulmanU	Southern Point	0SE0009-004	VIDHY SPEC	100-A-92A		SE0009-0001 0005
\$E1.0				0		£010.0-	10-12-8	Plutonium-239/240	Southern Point	05E0009-004	ALPHA SPEC	100-A-92A	log	SE0000-0001005
1 110.0				n	PCVG	A&A00.0	14596-10-2	7 Anerichm-241	miod marbuo8	02E0009-004	VIDHA SPEC	100-A-92A	301	SE 0009-001'005
9	0				bCN ₂		1-18-0117	86S-mulnsiU	Inioq mathuog	05E0009-004	HPGe	RC108019	POS	2E0000-001'001
1	0				bcy3		1-96-71121	Urantum-235	Southern Point	0SE0009-001		RC108019		
Car de la constitución de la con	STORE .		100 C	oo.i	BUNOS	MAGES	20,50			# MONEGNAZA	2000)/[200	30		
2000	- *													







-	a historia en lant america i entrances accomen	I mark making	Leaves AVAIV				I vadante Areas	Established Holes	STORE ASSESSMENT	i and a condemnate to be described in the	
100000000000000000000000000000000000000				COLUMN TO MA				TESU TA TUNITS			
02E0008-007.002	Sol		ALPHA SPEC	02E0008-007	BU39-0005	Uranium-238	17440-61-1	0.596 PCVG	IJ		0.0468
02E0008-008.001	Sol	RC10B019	HPGe	02E0008-008	BU39-0003	AC-228	7440-34-8	1.8 pC/g			0
02E0008-008.001 02E0008-008.001	Sol	RC108019 RC108019	HPGe HPGe	02E0008-008	BU39-0003 BU39-0003	BI-212 BI-214		1.76 pCVg			0:
02E0008-008.001	Sol	RC108019	IHPGe	02E0008-008	BU39-0003	K-40	13966-0-2	0.62 pCVg 18.8 pCVg	 -		0
02E0008-008.001	Sol	RC108019	HPGe	02E0008-008	BU39-0003	NP/U-233	13300-0-2	0 pCVg	 -		
02E0008-008.001	Sol	RC108019	HPGe	02E0008-008	BU39-0003	PA-234		0 pCVg	1		0
02E0008-008.001	Sol	RC10B019	HPGe	02E0008-008	BU39-0003	PA-234M	1	0 pCVg	II		oʻ
02E0008-008.001	Sol	RC10B019	HPGe	02E0008-008	BU39-0003	PB-212		1.28 pCVg	1		0
02E0008-008.001	Sol	RC108019 RC108019	HPGe HPGe	02E0008-008	BU39-0003 BU39-0003	PB-214 PO-210	13981-52-7	0.553 pCVg			- 0: -
02E0008-008.001	Sol	RC108019	IHPGe	02E0008-008	BU39-0003	RA-224	13901-32-7	0 pCi/g 2.18 pCi/g	1 - 4	11 1	o:
02E0008-008.001	Sol	RC10B019	HPGe	02E0008-008	BU39-0003	RA-226	10031-23-9	3.26 pCVg	 		o.
02E0008-008,001	Soil	RC10B019	HPGe	02E0008-008	BU39-0003	Th-231	+ ··	0 pCi/g	1		0
02E0008-008.001	Soll	RC108019	HPGe	02E0008-008	BU39-0003	TL-208		0.471 pCVg	1	!	0
02E0008-008.001	Sol	RC10B019	HPGe	02E0008-008	8U39-0003	Americium-241	14598-10-2	0 pCVg	<u> </u>		0, 4
02E0008-008.001 02E0008-008.001	Sof		HPGe	02E0006-008	BU39-0003	THORIUM-230 Uranium-235	14269-63-7 15117-98-1	0 pCVg	 		
02E0008-008.001	Sol	RC10B019 RC10B019	HPGe HPGe	02E0008-008	BU39-0003 BU39-0003	Uranum-235	7440-61-1	0 pCVg	·		0: 1
02E0008-008.002	Sol	ASP-A-004	ALPHA SPEC	02E0008-008	BU39-0003	Americium-241	14598-10-2	0.0268 PCVG	Ü	7 +	0.0413
02E0008-008.002	Sol	ASP-A-004	ALPHA SPEC	02E0008-008	BU39-0003	Plutonium-239/240	10-12-8	0.021 PC/G	Ū		0.114
02E0008-008.002	Soll	ASP-A-004	ALPHA SPEC	02E0008-008	BU39-0003	Uranium-234	11-08-5	0.871 PCVG	J		0.116
02E0008-006.002	Soll	ASP-A-004	ALPHA SPEC	02E0008-008	BU39-0003	Uranium-235	15117-98-1	0.0494 PCVG	U		0.0877
02E0008-008.002 02E0008-009.001	Sol	ASP-A-004 RC10B019	ALPHA SPEC	02E0008-008 02E0008-009	BU39-0003 BU39-0004	Uranium-238 AC-228	7440-61-1 7440-34-8	1.13 PCVG 1.32 pCVg	ļ		0.0548
02E0008-009.001	Sol	RC108019	HPGe	02E0008-009	BU39-0004	BI-212	11-40-34-0	1.32 pC/g	 		
02E0008-009.001	Sol	RC108019	HPGe	02E0008-009	BU39-0004	B-214	·	0.6991pCVg	+		ŏ!
02E0008-009,001	Sol	RC108019	HPGe	02E0008-009	BU39-0004	K-40	13966-0-2	25.4 pCVg	11	· i	0
02E0008-009.001	Sol	RC10B019	HPGe	02E0008-009	BU39-0004	PA-234		0 pCVg	<u> </u>		0
02E0008-009.001	Sol	RC108019 RC108019	HPGe HPGe	02E0008-009	BU39-0004 BU39-0004	PA-234M PB-212	4	0 pC/g			
02E0008-009.001	Sol	RC108019	HPGe	02E0008-009	BU39-0004	PB-212		1.17 pCVg	1 -1		ö:
02E0006-009,001	Sol	RC10B019	HPGe	02E0008-009	BU39-0004	PO-210	13981-52-7	0 pCVg	1 1 -		o,
02E0008-009.001	Sol	RC10B019	HPGe	02E0008-009	BU39-0004	RA-226	10031-23-9	5.73 pCVg	i I		0
02E0008-009,001	Sol	RC10B019	HPGe	02E0008-009	BU39-0004	Th-231	-	0 pCVg	1		o:
02E0008-009.001	Sol	RC108019	HPGe	02E0008-009	BU39-0004	TL-208	-	0.58 pC/g	 .		. 0
02E0008-009.001 02E0008-009.001	Sol	RC108019 RC108019	HPGe HPGe	02E0008-009 02E0008-009	BU39-0004 BU39-0004	Americum-241 CESIUM-134	14596-10-2	0 pCVg 1,5 pCVg	 	. 	
02E0008-009.001	Sol	RC108019	HPGe	02E0008-009	BU39-0004	THORIUM-230	14269-83-7	0 pCVg			oʻ.
02E0008-009.001	Sol	RC108019	HPGe	02E0008-009	BU39-0004	Urankum-235	15117-96-1	0 pCVg	•	: :	0 1
02E0008-009.001	Sol	RC10B019	HPGe	02E0008-009	BU39-0004	Uranium-238	7440-61-1	0 pCi/o			0 8
02E0008-009.002	Sot		ALPHA SPEC	02E0008-009	BU39-0004	Americium-241	14596-10-2	0.0823 PCVG	J		0.013
02E0008-009.002 02E0008-009.002	Sol	ASP-A-004 ASP-A-004	ALPHA SPEC ALPHA SPEC		BU39-0004 BU39-0004	Plutonium-239/240 Uranium-234	10-12-8	0.0417 PCVG	ļŲ		0.104
02E0008-009.002	Sol		ALPHA SPEC	02E0008-009	BU39-0004	Uranium-235	15117-96-1	0.693 PCVG 0.0573 PCVG	 		0.0738
0250008-009.002	Sol		ALPHA SPEC	02E0008-009	BU39-0004	Uranium-238	7440-61-1	0.677 PCVG	13	 	0.0498
02E0008-010.001	Sol		HPGe	02E0008-010	BV39-0001	AC-228	7440-34-8	1.78 pC/g			
02E0008-010.001	Sol	RC108019	HPGe	02E0008-010	BV39-0001	BI-212		0 pCVg			0
02E0006-010.001	Soil	RC10B019	HPGe		BV39-0001	BF214	1	1.05 pCi/g			
02E0006-010.001	Sol	RC108019	HPGe		BV39-0001	K-40	13966-0-2	25.6 pCl/g	 	<u> </u>	0
02E0006-010.001	Sol	RC108019 RC108019	HPGe HPGe		BV39-0001 BV39-0001	NP/U-233 PA-234	 	0 pCl/g	 		0
02E0008-010.001	Sol	RC108019	HPGe	02E0008-010	BV39-0001	PA-234M	 	0 pCl/g 0 pCl/g			
02E0008-010.001	Sol	RC108019	HPGe	02E0008-010	BV39-0001	PB-212	 	1.69 pCVg	 		·
02E0008-010.001	Sol	RC10B019	HPGe	02E0008-010	BV39-0001	PB-214		0.822 pCVg	I I		·····
02E0008-010.001		RC10B019	HPGe	02E0008-010	BV39-0001	PO-210	13981-52-7	0 pCVg			0.
02E0006-010.001 02E0008-010.001		RC10B019 RC10B019	HPGe HPGe	02E0008-010 02E0008-010	BV39-0001 BV39-0001	RA-224 RA-226	10031-23-9	0 pCVg	 -		<u>0:</u>
02E0008-010.001	Sol	RC10B019 RC10B019	HPGe HPGe		BV39-0001	Th-231	10031-23-9	4.17 pCVg 0 pCVg	 		-01.
02E0008-010.001	Sol	RC108019	HPGe		BV39-0001	TL-208	1	0.595 pCVg			ō¦
02E0008-010.001	Sol	RC10B019		02E0008-010	BV39-0001	Americium-241	14596-10-2	0 pCi/g		1	0,4
02E0008-010.001		RC108019	HPGe	02E0008-010	BV39-0001	THORIUM-230	14269-63-7	0 pCVg			0
02E0008-010.001	Sol	RC10B019	HPGe	02E0008-010	BV39-0001	Uranium-235	15117-96-1	0 pCVg	ļ -	-	0 1
02E0008-010.001 02E0008-010.002	Soll	RC10B019 ASP-A-004	HPGe ALPHA SPEC	02E0008-010 02E0008-010	BV39-0001 BV39-0001	Uranium-238 Americium-241	7440-81-1 14598-10-2	0 pCl/g 0.0205 PCl/G	 		0.0435
02E0008-010.002		ASP-A-004		02E0008-010	BV39-0001	Plutonium-239/240	10-12-8	-0.0473 PCVG	U I		0.172
02E0008-010.002	Sol	ASP-A-004	ALPHA SPEC	02E0008-010	BV39-0001	Uranium-234	11-08-5	0.818 PCVG	J		0.117
02E0008-010.002	Sol	ASP-A-004	ALPHA SPEC	02E0008-010	BV39-0001	Uranium-235	15117-98-1	0.0842 PCVG	U		0.146
02E0008-010.002		ASP-A-004		02E0008-010	BV39-0001	Uranium-238	7440-61-1	0.888 PCVG	J		0.068
02E0008-011.001 02E0008-011.001				02E0008-011 02E0008-011	Eastern Process Line Eastern Process Line	AC-228 BI-212	7440-34-8	0.856 pCVg 0 pCVg	 -		0
WEU000-011.001	1301	INC TODO IS	nrue	UZEU00-011	Feeren Lincoss Fine	IDEC16	L	ojpe/g			<u> </u>

30.110	1 2 22			1502 6	205 Sec. 7 10	Service Visite Park	450		14.		V		1
02E0008-011.001	Sol	RC108019	HPGe	02E0008-011	Eastern Process Line	BI-214			I pCVg			0):
02E0008-011.001	Sol	RC10B019	HPGe	02E0008-011	Eastern Process Line	K-40	13966-0-2		pCVg	1 		0	
02E0008-011.001	Sol	RC10B019	HPGe	02E0008-011	Eastern Process Line	PA-234			pCirg			0	
02E0008-011.001	Soll	RC10B019	HPGe	02E0008-011	Eastern Process Une	PA-234M	1		pC/g			. 0	i
02E0008-011.001 02E0008-011.001	Sof	RC10B019	HPGe	02E0008-011	Eastern Process Line	PB-212		0.83	pC/g	<u> </u>		. 0	
02E0008-011.001	Sol	RC10B019	HPGe HPGe	02E0008-011	Eastern Process Line	PB-214		0.501	pC/Q			. 0	
Q2E0008-011.001	Sol	RC108019 RC108019	HPGe HPGe	02E0008-011	Eastern Process Line Eastern Process Line	PO-210 RA-226	13981-52-7 10031-23-9	ļ	pCVg			0	
D2TE0008-011.001	Sol	RC108019	HPGe	02E0008-011	Eastern Process Line	Th-231	10031-23-9	3.97	pCVg	- 			
02E0008-011.001	Sol	RC108019	HPGe	02E0008-011	Eastern Process Line	TL-208	+	0.285	pCVg	+			
02E0008-011.001	Sof	RC10B019	HPGe	02E0008-011	Eastern Process Line	Americium-241	14598-10-2		pCVg		-		
02E0008-011.001	Sol	RC10B019	HPGe	02E0008-011	Eastern Process Line	CESIUM-134	13967-70-9	0.0579	pCV ₀	1		. 0	
93E0008-011.001	Soil	RC10B019	HPGe	02E0008-011	Eastern Process Line	THORIUM-230	14269-63-7	1	pC/g	1		0	
98E0008-011.001	Sol	RC10B019	HPGe	02E0008-011	Eastern Process Line	Uranium-235	15117-98-1		pCVg	1		0	,
0220008-011.001	Sol	RC10B019	HPGe	02E0008-011	Eastern Process Line	Uranium-238	7440-61-1		pC/g	I		0	
GE 0008-011.002	Sol	ASP-A-004	ALPHA SPEC	02E0008-011	Eastern Process Line	Americium-241	14598-10-2		PCVG	IJ		_ !	0.0491
QEE0008-011.002 QEE0008-011.002	Sol	ASP-A-004	ALPHA SPEC	02E0008-011	Eastern Process Line	Plutonium-239/240	10-12-8		PCVG	J			0.0444
02E0008-011.002	Soli Soli	ASP-A-004 ASP-A-004	ALPHA SPEC	02E0008-011	Eastern Process Line	Uranium-234	11-06-5		PCVG	ļ <u>.</u>			0.0834
22E0008-011.002	Sol	ASP-A-004	ALPHA SPEC	02E0008-011 02E0008-011	Eastern Process Line Eastern Process Line	Uranium-235 Uranium-236	15117-96-1 7440-61-1		PCVG	1		:	0.0403
DE 0008-014.002	Sof	ASP-A-004	ALPHA SPEC	02E0008-014	Western Pile	Americium-241	14596-10-2		PCIG			1	0.0402
0250006-014,002	Sol	ASP-A-004	ALPHA SPEC	02E0008-014	Western Pile	Plutonium-239/240	10-12-8		PCVG	U			0.0321
GE 0008-014,002	Sol	ASP-A-004	ALPHA SPEC	02E0008-014	Western Pile	Uranium-234	11-08-5		PCVG	t i	 		0.0575
₫₫: 0008-014.002	Sol	ASP-A-004	ALPHA SPEC	02E0008-014	Western Pile	Uranium-235	15117-98-1		PCVG	 			0.0576
BE 0008-014.002	Soll	ASP-A-004	ALPHA SPEC	02E0008-014	Western Pile	Uranium-238	7440-61-1		PCVG	 			0.0575
0008-015.002	Soll	ASP-A-004	ALPHA SPEC	02E0008-015	Western Pile	Americium-241	14596-10-2		PCVG	lu l			0.0724
Ø\$0008-015.002	Sol	ASP-A-004	ALPHA SPEC	02E0008-015	Western Pile .	Plutonium-239/240	10-12-8		PCVG	lū			0.102
P20008-015.002	Sol	ASP-A-004	ALPHA SPEC	02E0008-015	Western Pile	Uranium-234	11-08-5	0.85	PCVG	J			0.12
025 0008-015.002	Soll	ASP-A-004	ALPHA SPEC	02E0008-015	Western Pile	Uranium-235	15117-96-1		PCVG	U			0.0963
62E0008-015.002	Sol	ASP-A-004	ALPHA SPEC	02E0008-015	Western Pile	Uranium-238	7440-61-1		PCVG	J			0.0902
MEE0008-016.002	Soll	ASP-A-004	ALPHA SPEC	02E0008-016	Middle Pile	Americium-241	14596-10-2		PCVG	U			0.0307
020008-016.002	Sol	ASP-A-004	ALPHA SPEC	02E0008-016	Middle Pile	Plutonium-239/240	10-12-8		PCVG	U			0.127
02E0008-018.002	Sof	ASP-A-004	ALPHA SPEC		Middle Pile	Uranium-234	11-08-5		PCVG	1			0.0574
0250008-016.002 02E0008-016.002	Sol	ASP-A-004 ASP-A-004	ALPHA SPEC	02E0008-016	Middle Pile	Urankum-235	15117-96-1		PCVG	in			0.0575
Q250008-017.002	Sol	ASP-A-004	ALPHA SPEC	02E0008-016 02E0008-017	Middle Pile Eastern Pile	Uranium-238 Americium-241	7440-61-1 14596-10-2		PCVG PCVG	13			0.0688
V2E0008-017.002	Sol	ASP-A-004	ALPHA SPEC		Eastern Pile	Plutonium-239/240	10-12-8		PCVG	 			0.0581
02E0008-017.002	Sot	ASP-A-004	ALPHA SPEC	02E0008-017	Eastern Pile	Uranium-234	11-08-5		PCVG	 			0.117
622 0008-017.002	Sol	ASP-A-004	ALPHA SPEC	02E0008-017	Eastern Pile	Urantum-235	15117-96-1	0.00194		-			0.0694
250008-017.002	Sol	ASP-A-004	ALPHA SPEC	02E0008-017	Eastern Pile	Uranium-238	7440-61-1		PCVG	13			0.0756
02E0008-018.001	Sol	RC108019	HPGe		B123 Metal Manhole	AC-228	7440-34-8		pCVg	†		0	
DEC0008-018.001	Sol	RC10B019	HPGe	02E0008-018	B123 Metal Manhole	B-212	1	3.38	pCi/g	1		0	
276 0008-018.001	Sol	RC10B019	HPGe	02E0008-018	B123 Metal Manhole	BF214		0.845	pCVg	1		0	
CO008-018.001	Sol	RC108019	HPGe		B123 Metal Manhole	K-40	13966-0-2		pCl/g			0	
QE0008-018.001	Sol	RC10B019	HPGe 1		B123 Metal Manhole	PA-234	<u> </u>		pCi/g			0	
0250008-018.001	Sol	RC10B019	HPGe	02E0008-018	B123 Metal Manhole	PA-234M	ļ	<u> </u>	pCl/g	├		0	
02E0008-018.001 82E0008-018.001	Sol	RC10B019 RC10B019	HPGe	02E0008-018	9123 Metal Manhole	PB-212			pCl/g	 		0	
0220008-018.001	Sol	RC10B019	HPGe HPGe	02E0008-018 02E0008-018	B123 Metal Manhole B123 Metal Manhole	PB-214 PO-210	13981-52-7		pCVg	 		0	
02E0008-018.001	Sol	RC10B019	HPGe	02E0008-018	B123 Metal Manhole	RA-226	10031-23-9		pCVg	 		0	
£250008-018.001	Sol	RC10B019	HPGe	02E0008-018	B123 Metal Manhole	Th-231	10031-23-9	 	pCl/g pCl/g	 		- + 0	
\$28,0008-018,001	Sol	RC108019	HPGe	02E0008-018	B123 Metal Manhole	TL-208	·		pCVg	 		0	
20008-018.001	Sol	RC10B019	HPGe	02E0008-018	B123 Metal Manhole	Americium-241	14598-10-2		pCVg	 	+		
0280008-018.001	Soli	RC10B019	HPGe		8123 Metal Manhole	THORIUM-230	14269-63-7		pCVg	 -		0	
280008-018.001	Sol	RC108019	HPGe		B123 Metal Manhole	Uranium-235	15117-96-1		pCVg		1	0	
62E0008-018.001	Sol	RC10B019	HPGe		B123 Metal Manhole	Uranium-238	7440-61-1	0	pCVg			0	
0220008-018.002	Sol	ASP-A-004	ALPHA SPEC		B123 Metal Manhole	Americium-241	14598-10-2	0.0492	PCVG	U			0.122
02E0008-018.002	Sof	ASP-A-004	ALPHA SPEC		B123 Metal Manhole	Plutonium-239/240	10-12-8		PCVG	U			0.103
0090008-018.002	Sol	ASP-A-004	ALPHA SPEC		B123 Metal Manhole	Uranium-234	11-08-5		PCVG	J	1	1	0.161
(290008-018.002	Sol	ASP-A-004	ALPHA SPEC		B123 Metal Manhole	Uranium-235	15117-96-1	0.0658		<u> </u>			0.169
9850008-018,002 9250010-004,001	Sol	ASP-A-004 ASP-A-004	ALPHA SPEC	02E0008-018 02E0010-004	B123 Metal Manhole Source Pit	Uranium-238 Americium-241	7440-61-1		PCVG	!!			0.154
02E0010-004.001	Sol	ASP-A-004	ALPHA SPEC	02E0010-004	Source Pit	Plutonium-239/240	10-12-8		PCVG	0	 		0.0995
0250010-004.001	Sol	ASP-A-004	ALPHA SPEC	02E0010-004	Source Pit	Uranium-234	11-08-5		PCVG	 			0.127
	Sol	ASP-A-004	ALPHA SPEC	02E0010-004	Source Pit	Uranium-235	15117-98-1		PCVG	 			0,115
0750010-004.001 0250010-004.001	Solt	ASP-A-004	ALPHA SPEC	02E0010-004	Source Pit	Uranium-238	7440-81-1		IPCVG	 			0.0973
0250010-004.002	Sol	RC108019	HPGe	02E0010-004	Source Pit	AC-228	7440-34-8		pCVg		-	0	
	Sol	RC10B019	HPGe		Source Pit .	BI-212			pCVg			5	1_
02E0010-004.002	I SOR	1000013											<u> </u>
0250010-004.002	Sol	RC108019	HPGe	02E0010-004	Source Pil	BI-214		0.753	pCV _Q			0	i
				02E0010-004 02E0010-004	Source Pil Source Pil Source Pil	BI-214 K-40 PA-234	13966-0-2	0.753				0	



Section Sect				# 1-4-2 1717 N. t	Complete Commit		JR: 11.	1 Programina	-	понски бу	11-e1 E1	,)] ~			
Section Sect	المقدلة فللتخداد	il a continue con	10.5	MENT CODE	SUPPLIES TO	E CONTRACTOR	April	Total of	1132046	SUNITS	300			77.5	
Section Color Property Property Property Color C							PA-234M		0	pCi/g				. 0	!
								I	1.48	pCVg				<u> </u>	
Section 2015 Section											 				4 -
Section 10 Section Property Property Section Property Sect									2.47	DCV9				<u> </u>	
Section Col. Section Process								110031-23-5			 			<u> </u>	·
Company Comp				HPGe	02E0010-004						1			·	
STOCK 1905														0	i 4
Company Comp											1			0	
1987-1986 1987 1989 19											ļ			. 0	
Company											i			; 0	' 1
														, ,	0.117
														<u>.</u>	0.103
Company Comp		Soll	ASP-A-004											i	0.062
Section Sect											ij				0.0468
Section Sect											J				0.082
Section Sect								7440-34-8						0	
Company Comp								·			 			0	i
CONTROLOGIC COLUMN COLUMN								13088.0.2			ļ !			. 0	: :
Section Sect								1.2000-2			 				•
1000000000000000000000000000000000000	02E0010-005.002	Solt	RC108019	HPGe				·•	0	pCVg	T				• -
CONTROLOGO Set Part CONTROLOGO Section VAP Per Part								1	1.04	pCV _Q	1			0	•
Section Code 2022 Section Sect														0	
200010-0000 CS CS											; <u> </u>			0	
								10031-23-9			- 1			. 0	
									0.276	DCA8	j ļ	· 			
								14596-10-2			 	·			
20001000000000000000000000000000000000		Soil									i				
CECCOTI-0.005.002 Sed RC 1080-19 PrOpe CECCOTI-0.005 Source Wal Prop Utrewin-28 744-0.4 Co. Co									0	pCVg	1			. 0	
CECOTICO DOSCO Del ASP-A-COM AUPHA SPEC DECOTICO DOS Norm Same Pine Phanema-730740 10-16-5 0.0033 PCMG U 0 0 0 0 0 0 0 0 0											1				1
Control Seal ASP-A-COA ALPHA SPEC DECOTIONS New Sand Pile Packersm-239240 10-12-3 0.0107 PCCG U 0.0											ļ.,	!		0	
CERCOTI-0.000.000 Sel												- 1			0.106
CERTIFOCO Seal ASPA-COM ALPHA SPEC 0250010000 Norm Sant Pie Urraham-235 15117-661 0,00516 PCIG U 0 0 0 0 0 0 0 0 0													· · ·		0.103
ASP-A000 Sol											· · · · · · · · · · · · · · · · · · ·				0.132
DECOND.0003				ALPHA SPEC	02E0010-008	North Sand Pile		7440-61-1	0.262	PCVG	;j				0,0898
DECOTO-008.002 Sold RC108019 HPGs 0250010-008 Nom Sand Pile B.214								7440-34-8	1.4	pCVg_	1	i		. 0	
DECOMPORTORS Sold RC108019 RPGs 025001-0000 Abom Same Pile K.4.0 19966-0.2 2.5 5.2% 0 0 0 0 0 0 0 0 0								<u> </u>			 :	1			
DECOMPLOGOS Sol									0.753	pC//g	ļ	!		0	·
DECONO-COOK COOK Sold RC108019 HPCs 02E0010-000 North Sand Pile PA-234M 0 CUp 0 0 0 0 0 0 0 0 0						North Sand Pile		13966-0-2			<u> </u>		. ;	. 0	
DECOND-COOK DOZ Sel								i			ļ			v	
CEECOTO-COOR.COO.Z. Soil RC108019 HPGe CEECOTO-COOR North Sand Pile PD-210 15981-52-7 O CECOTO-COOR North Sand Pile PD-210 15981-52-7 O CECOTO-COOR North Sand Pile PD-210 15981-52-7 O CECOTO-COOR North Sand Pile RA-226 10031-23-9 O CECOTO-COOR North Sand Pile RA-226 10031-23-9 O CECOTO-COOR North Sand Pile RA-226 O CECOTO-COOR North Sand Pile CECOTO-C								 -			 			0	
DEED010-0000,0022 Soil		Sol						1			1	:		ō	
DEEGOTO-000.002 Sold RC108019 HPGe 02E0010-008 North Sand Pile Th-231 0 0 CF/g 0 0 CEEDOTO-008 North Sand Pile Th-231 14596-10-2 0 CF/g 0 0 CEEDOTO-008 North Sand Pile Americkim-241 14596-10-2 0 CF/g 0 CEEDOTO-008 North Sand Pile Americkim-241 14596-10-2 0 CF/g 0 CEEDOTO-008 North Sand Pile Americkim-241 14596-10-2 0 CF/g 0 CEEDOTO-008 North Sand Pile CESIUM-134 13967-70-9 0 CF/g 0 CEEDOTO-008 North Sand Pile CESIUM-134 13967-70-9 0 CF/g 0 CEEDOTO-008 North Sand Pile CESIUM-134 13967-70-9 0 CF/g 0 CEEDOTO-008 North Sand Pile CESIUM-134 13967-70-9 0 CF/g 0 CEEDOTO-008 North Sand Pile CESIUM-134 13967-70-9 0 CF/g 0 CEEDOTO-008 North Sand Pile Uranium-235 15117-96-1 0 CF/g 0 CEEDOTO-008 North Sand Pile Uranium-235 15117-96-1 0 CF/g 0 CEEDOTO-008 North Sand Pile Uranium-235 15117-96-1 0 CF/g 0 CEEDOTO-009 North Sand Pile Uranium-235 15117-96-1 0 CF/g 0 CEEDOTO-009 North Sand Pile Uranium-235 15117-96-1 0 CF/g 0 CEEDOTO-009 North Sand Pile Uranium-235 15117-96-1 0 CF/g 0 CEEDOTO-009 North Sand Pile Uranium-235 15117-96-1 0 CF/g 0 CEEDOTO-009 North Sand Pile Uranium-235 15117-96-1 0 CF/g 0 CEEDOTO-009 North Sand Pile Uranium-235 15117-96-1 0 CF/g 0 CEEDOTO-009 North Sand Pile Uranium-235 15117-96-1 0 CF/g 0 CEEDOTO-009 North Sand Pile Uranium-235 15117-96-1 0 CF/g 0 CEEDOTO-009 North Sand Pile Uranium-235 15117-96-1 0 CF/g 0 CEEDOTO-009 North Sand Pile Uranium-235 15117-96-1 0 CF/g 0 CEEDOTO-009 North Sand Pile Uranium-235 15117-96-1 0 CF/g 0 CEEDOTO-009 North Sand Pile Uranium-235 15117-96-1 0 CF/g 0 CEEDOTO-009 North Sand Pile Uranium-235 15117-96-1 0 CF/g 0 CEEDOTO-009 CF/g 0 CEEDOTO-009 CF/g 0 CEEDOTO-009 CF/g 0 CEEDOTO-009									0	pCVg				0	-
DEEGOTI-COOR.COZ Sol								10031-23-9						0	
CZEO010-008.002 Soil								1	0	pCVg	ļÌ	1			
CZE0010-008.002 Soil	0250010-008.002							14508-10-2				- 1			,
DEE0010-006.002 Soil											ļ <i>-</i> ļ			. 0	٠ 4
DEED010-008.002 Soil RC108019 HPGe DEED010-008 North Sand Pile Urantum-235 15117-06-1 DEED010-008.002 Soil RC108019 HPGe DEED010-007 South Sand Pile Urantum-238 7440-81-1 DEED010-007 DEED010-007.001 Soil ASP-A-004 ALPHA SPEC DEED010-007 South Sand Pile Americam-241 14596-1 DEED010-007 DEED010-007.001 Soil ASP-A-004 ALPHA SPEC DEED010-007 South Sand Pile Photonium-239/240 DEED010-007 DEED010-007.001 Soil ASP-A-004 ALPHA SPEC DEED010-007 South Sand Pile Urantum-234 DEED010-007 DEED010-00	02E0010-008.002		RC108019	HPGe							 				
DEE0010-007.001 Soil ASP-A-004 ALPHA SPEC 02E0010-007 South Sand Pile Photohum-239/240 14596-10-2 0.0732 PCVG					02E0010-008	North Sand Pile	Uranium-235	15117-98-1	O.	pCi/g				Ö	
CREE0010-007.001 Soli														0	8
DEE0010-007.001 Soil ASP-A-004 ALPHA SPEC 02E0010-007 South Sand Pile Urantum-234 11-06-5 0.532 PCVG J 0.002E0010-007.001 Soil ASP-A-004 ALPHA SPEC 02E0010-007 South Sand Pile Urantum-235 15117-96-1 -0.0104 PCVG J 0.002E0010-007.001 Soil ASP-A-004 ALPHA SPEC 02E0010-007 South Sand Pile Urantum-235 15117-96-1 -0.0104 PCVG J 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 South Sand Pile AC-226 7440-34-8 1.59 PCVg 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 South Sand Pile BI-212 0.075 PCVg 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 South Sand Pile BI-214 0.0878 PCVg 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 South Sand Pile RC40 13989-0-2 22.3 PCVg 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 South Sand Pile RC40 13989-0-2 22.3 PCVg 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 South Sand Pile RC40 13989-0-2 22.3 PCVg 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 South Sand Pile PC-214 0.002E0010-007 PCVg 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 South Sand Pile PC-214 0.002E0010-007 PCVg 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 South Sand Pile PC-214 0.002E0010-007 PCVg 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 South Sand Pile PC-214 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 South Sand Pile PC-214 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 South Sand Pile PC-214 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 South Sand Pile PC-214 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 South Sand Pile PC-214 0.002E0010-007 South Sand Pile PC-214 0.002E0010-007											13				0.0549
DEE0010-007.001 Soil ASP-A-004 ALPHA SPEC 02E0010-007 South Sand Pile Urankum-235 15117-96-1 -0.0104 PCVG U 0.002E0010-007.002 Soil ASP-A-004 ALPHA SPEC 02E0010-007 South Sand Pile Urankum-238 74-10-61-1 0.377 PCVG U 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 South Sand Pile BI-212 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 South Sand Pile BI-212 0.002E0010-007 Soil RC108019 HPGe 02E0010-007 Soil Sand Pile BI-214 0.0078 PCVg 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 Soil Sand Pile BI-214 0.0078 PCVg 0.002E0010-007 Soil RC108019 HPGe 02E0010-007 Soil Sand Pile BI-214 0.0078 PCVg 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 Soil Sand Pile PA-234 0.002E0010-007 DCVg 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 Soil Sand Pile PA-234 0.002E0010-007 DCVg 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 Soil Sand Pile PA-234 0.002E0010-007 DCVg 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 Soil Sand Pile PA-234 0.002E0010-007 DCVg 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 Soil Sand Pile PA-234 0.002E0010-007 DCVg 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 Soil Sand Pile PB-214 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 Soil Sand Pile PB-214 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 Soil Sand Pile PB-214 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 Soil Sand Pile PB-214 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 Soil Sand Pile PB-214 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 Soil Sand Pile PB-214 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 Soil Sand Pile PB-214 0.002E0010-007.002 Soil RC108019 HPGe 02E0010-007 Soil Sand Pile PB-214 0.002E0010-007 Soil Sand Pile PB-21													-		0.133
CRED010-007.001 Solit ASP-A-OA ALPHA SPEC 02E0010-007 South Sand Pile Uranium-238 744-61-1 0.377 PCVG J 0.00											lu i	,			0.171
CEECO10-007.002 Sole RC108019 HPGe O2ECO10-007 South Sand Pile AC-226 7.440-34-8 1.59 pC/ly 0 0 0 0 0 0 0 0 0	02E0010-007.001	Soil	ASP-A-004	ALPHA SPEC	02E0010-007	South Sand Pile		7440-61-1			J	ì	,		0.146
©2E0010-007.002 Soll RC108019 HPGe Q2E0010-007 South Sand Pile BI-214 13960-0-2 22.3 pC/g 0 Q2E0010-007.002 Soil RC108019 HPGe Q2E0010-007 South Sand Pile K-4.0 13960-0-2 22.3 pC/g 0 Q2E0010-007.002 Soil RC108019 HPGe Q2E0010-007 South Sand Pile PA-234 0 pC/g 0 Q2E0010-007.002 Soil RC108019 HPGe Q2E0010-007 South Sand Pile PA-234M 0 pC/g 0 Q2E0010-007.002 Soil RC108019 HPGe Q2E0010-007 South Sand Pile PB-214 1.5 pC/g 0 Q2E0010-007.002 Soil RC108019 HPGe Q2E0010-007 South Sand Pile PB-214 0.755 pC/g 0 Q2E0010-007.002 Soil RC108019 HPGe Q2E0010-007 South Sand Pile PB-214 0.755 pC/g 0 Q2E0010-007.002 Soil RC108019 HPGe Q2E0010-007 South Sand Pile PB-214 0.755						South Sand Pile	AC-228	7440-34-8	1.59	pCVg				Ö	
CEED010-007.002 Soil RC108019 HPGe 02E0010-007 South Sand Pile K-40 13966-0-2 22.3 PCig 0 0 0 0 0 0 0 0 0											ļi				
Q2E0010-007.002 Soil RC108019 HPGe Q2E0010-007 South Sand Pile PA-234 0 pCVg 0 Q2E0010-007.002 Soil RC108019 HPGe Q2E0010-007 South Sand Pile PA-234M 0 pCVg 0 Q2E0010-007.002 Soil RC108019 HPGe Q2E0010-007 South Sand Pile PB-212 1.5 pCVg 0 Q2E0010-007.002 Soil RC108019 HPGe Q2E0010-007 South Sand Pile PB-214 0.785 pCVg 0 Q2E0010-007.002 Soil RC108019 HPGe Q2E0010-007 South Sand Pile PB-214 0.785 pCVg 0 Q2E0010-007.002 Soil RC108019 HPGe Q2E0010-007 South Sand Pile PB-214 0.785 pCVg 0											<u> </u>	į			-
G2E0010-007.002 Soil RC108019 HPGe Q2E0010-007 South Sand Pile PA-234M 0 pC/0 pC/0 0 Q2E0010-007.002 Soil RC108019 HPGe Q2E0010-007 South Sand Pile PB-212 1.5 pC/0 0 Q2E0010-007.002 Soil RC108019 HPGe Q2E0010-007 South Sand Pile PB-214 0.7555 pC/0 0 Q2E0010-007.002 Soil RC108019 HPGe Q2E0010-007 South Sand Pile PC-210 13981-52-7 0 pC/0 0								13900-0-2			├				 .
ØZE0010-007.002 Soil RC108019 HPGe ØZE0010-007 South Sand Pile PB-212 1.5 pC/lg 0 ©ZE0010-007.002 Soil RC108019 HPGe ØZE0010-007 South Sand Pile PB-214 0.755 pC/lg 0 ©ZE0010-007.002 Soil RC108019 HPGe ØZE0010-007 South Sand Pile PB-214 0.755 pC/lg 0 ©ZE0010-007.002 Soil RC108019 HPGe ØZE0010-007 South Sand Pile PB-214 13881-52-7 0 pC/lg 0								ļ		oCVo	 				
CZE0010-007.002 Soil RC108019 HPGe 02E0010-007 South Sand Pile PB-214 0.755 pCity 0 02E0010-007.002 Soil RC108019 HPGe 02E0010-007 South Sand Pile PC-210 13981-52-7 0 pCty 0									1.5	pCi/g	!		}		
02E0010-007.002 Soil RC108019 HPGe							PB-214		0.755	oCV _Q					
									0	pCi/g				0	
	02E0010-007.002	Soll	RC10B019	HPGe	02E0010-007	South Sand Pile	RA-226	10031-23-9				1		0	

	10	1			DCN8	0	14269-63-7	0ES-MUIROHT	BU38-0004	02E0010-011	HbGe	81B012AL		02E0010-011.002
1	10		1		6AOd	0	8-01-T86C1	CESIDM-134	BU38-0004	02E0010-011	ньс•	918012RU	I IOS	S00.110-01003S0
ļ	· <u>ö</u> —-	 	<u> </u>		bcs0	<u> </u>	14596-10-2	Americum-241	BU38-0004	05E0010-011	954H	61801880	IOS	02E0010-011.002
·					DCN0			TL-208	BU38-0004		ньсе	618012RU		02€0010-011.003
	0	j				4410	6-05-E1611				ньсе	918012FL		200,110-0100320
	10	1			DCN0	0	14832-40-2	162-47	1000-8EU8					
l	0	1	i	L	bcn0	0	10031-23-9	PA-226	9000-96018		9 9dH	618012RU		02E0010-011.002
1	0	i			DCND		1.58-18961	PO-210	BU38-0004	02E0010-011	HbGe	918012RU		0260010-011.002
	0				bCN0	666.0	15067-28-4	bB-514	BD38-0004	02E0010-011	HPGe .	618012AU	105	200.110-0100320
1 .	0				DCM)	666'0	1-16-26051	b8-515	9000-85118	02E0010-011	HPGe	618012RU	los l	200.110-01003ISO
	·	 	+		bcn8		15100-28-4m	PA-234M	8039-000¢		HPGe	618012AU		200,110-0100350
		 									HPGe	61801890		02E0010-011.002
	0	I			bCN9		15100-28-4	PA-234	BN39-0004					
	0	1	1!		bCN9		13866-0-2	K-10	B039-0004		HPGe .	eraoreau		0250010-011,002
l .	0	1	1 !		DCN0		0-00-0071	81514	BD39-0004		•ран	61801280		200 110 0100 320
	0	1			bcs8	0	9-67-C1671	81515	9039-0004	02E0010-011	нь с е	818012RU	IOS	02E0010-011.002
	0				bcyg	0	8-16-0117	VC-338	9000-8EU8	02E0010-011	HPGe	618012RU	IOS	200 110-0100320
2890.0	 	 	+		PCVG		1-19-0117	Urantum-238	BU38-0004	02E0010-011	VI PHA SPEC	100-Y-dSY		100.110-0100350
		·		<u> </u>			1-98-41151	Uraminn-235	BU38-0004	02E0010-011	VI PHA SPEC	100-Y-dSV	POS	100.110-0100350
1600.0	ļ	 	+											
2060.0			1	ſ			8-80-11	A6S-mukng)U	9038-0004	02E0010-011	ALPHA SPEC	100-A-92A		100.110-0100350
2010.0		1		n	PCVG	66900'0	10-12-8	Plutorium-239/240	9000-8CUS		VIDHY SPEC	100-A-92A		100.110-0100350
C130.0	I			0	PCVG	EYS0.0	14596-10-2	Americum-241	8039-000¢	02E0010-011	VLPHA SPEC	100-A-92A	lo8	100.110-01003SD
	0				DCN2	CD. I	1-19-011/	Usarhum-238	BU38-003		ньс•	618013AU	POS	02E0010-010.002
	0	 	+		bone		1-98-21151	SES-mulns/U	BU38-003		HPGe	618012RU		0250010-010.002
		 	+								HPGe	918012RU	los l	02E0010-010.002
	0	 	4		pCNg		14269-63-7	0ES-MUIRIOHT	BU38-003					
	0	ļ			pC/vg		9-01-139E1	CESINW-134	BN38-003	02E0010-010	HPGe	eraoreau	Po8	\$00.010-0100350
1	0				DCN5		14596-10-2	1 bS-muchamA	8038-003	02E0010-010	99ан	618012AU	los	200.010-0100320
I	0	7	1		bcn8	55E.0	14913-50-9	802-JT	8U38-003	010-01003Z0	ньсе	918012RU	IOS	200:010:0100320
	0	 	1		bcN2	^ -	14835-40-5	162-41	B/139-003	0SE0010-010	HPG6 :	918012RU	IOS	0250010-010.002
	0	 	+	_	BCN8		8-62-16001	84-226	BR38-003	03E0010-010	HPG6	618012AU	IOS	200.010-0100350
		·	→								HbG9	91801291	106	200,010,0100,350
	0	<u> </u>			DCN9		13981-52-7	PO-210	BU38-003	02E0010-010				
	0	<u>!</u>			bCN9		1-02-19061	b-21¢	BU38-003	010-0100320	HPGe	918012RU		02E0010-010.002
	0		1		pCNg	121	15092-94-1	PB-212	BU38-003	02E0010-010	#PG6	618012RU	IOS I	02E0010-010.002
	0	1	\neg		bcy8	0	15100-26-4m	PA-234M	B038-003	05E0010-010	HPGe	918012RU	IOS	Q2E0010-010.002
	0	i	1		bCN3	<u>`</u>	12100-28-4	PA-234	B/139-003	05E0010-010	ньсе	918018RU	IOS	02E0010-010'003
	0		1		DCN8		13966-0-2	K-10	BN39-003		ньсе	61801SHU		200,010-0100350
)	, ` -	 			bcN3	700'0		BESIG	BU38-003		HPG6	URS10819		200,010-0100350
]	ļ <u>o</u>	· · · · · · · · · · · · · · · · · · ·					0-CO-CETA!				HPGe			200,010,0100,350
l	0	.			PC/Vg		9-61-61671	81512	C00-6CUB			618012RU		
l	.0	L	1		DCM9		8-16-0117	VC-SS9	BU38-003		HPGe	@18012AU		200.010-0100320
PS90.0	1				PCVG	2C.1	1-19-0117	Uranium-238	BU38-0003		ALPHA SPEC	100-A-98A		02E0010-010.001
9280.0				n	PCVG	1610.0	1-98-41151	Uranium-235	BN39-0003	02E0010-010	VIDHY SPEC	100-A-92A	los l	02E0010-010.001
1110		1	1		PCVG	ZZ'i	11-08-5	McS-mulnerU	BU38-0003	02E0010-010	ALPHA SPEC	100-A-92A	108	100.010-0100350
1100.0	i						10-15-8	Phitonium-239/240	B039-0003	05E0010-010	VTDHY SPEC	100-Y-dSY	POS	100.010-0100350
901 0	-	· · · · · · · · · · · · · · · · · · ·	+	'n		£8800.0	14596-10-2	Americium-241	BU38-0003		VIDHY SPEC	100-Y-dSV	POS	100'010-0100320
30.0		ļ	 		PCM		1-19-0117	Uninformation 238	in process, South of BU38-0004	02E0010-008	90dH	61801890		200'900-0100320
	0	i						Usadium-235	In process, South of BU38-0004	05E0010-009	HPG6	618012FU		200.800-0100350
3	.0		1		PCN		1-88-11181							
I	0				DCN8		14269-63-7	05S-MUIROHT	In process, South of BU38-0004	02E0010-009	609H	ereore#U	los	200 900-01003Z0
	0		1		bcw6		13967-70-9	CERION-134	In process, South of BU38-0004	05E0010-009	HPG6	918012RU		02E0010-009:003
7	ō `		T		DCN0	0 .	14596-10-2	142-mulchemA	In processa, South of BU38-0004	02E0010-008	ньс е	9180129U	llos	02E0010-009.002
ſ	0	1	·		bCN0		6-09-61671	802-17	In process, South of BU38-0004	02E0010-008	HPG6	918018RU	IOS	200,800-0100320
l	ò	1	1 i		bcy8		14835-40-5	16241			HPGe	618012RU	108	200.800-01003SD
			·		bC48		6-EZ-1C001	HA-226	in process, South of BU38-0004		9 0дн	6180129U	105	02E0010-009:002
]	ž	÷	+		bcy9		13961-52-7	PO-210	In process, South of BU38-0004		#PPG#	618018919	105	02E0010-006.002
	0		-											
1	.0	1	1		bCN9		1-62-79021	bB-214	n process, South of BU38-0004		90dH	618018AU	808	500,600-0100350
	.0	1	.!		DCN8		1-96-28091	bB-315	In process, South of BU38-0004		HPGe SO4H	618012สบ	Io8	02E0010-006.002
	0				PCi/g		12100-28-4m	PA-234M	In process, South of BU38-0004		954H	619012AU	eos	200,800-0100320
I	0		1		bCi√g		12100-28-4	PA-234	In process, South of BU38-0004		45qH	918012RU	IOS	02E0010-006.002
I	0	1	1		bCN8	1.6Z	13966-0-2	K-40	In process, South of BU38-0004	02E0010-008	HPGe	918012RU	IOS	200.000-0100350
l '	o	1			bcy8		0-60-66741	BFS1¢	In process, South of BU38-0004		4PG4	01801880	los l	02E0010-009.002
l '					bcs8		9-67-21671	81515	In process, South of BU38-0004	800-01003Z0	ньсе	61801880	808	02E0010-006.002
		.	·÷		bCN0			VC-228	In process, South of BU38-0004	900-0100320	PDGH.	618018910	108	200,800-0100350
	٠,٠	1					8-16-0117							
1610.0	!		44	<u>-</u> [PCVG		1-19-0117	86S-mulnasu	In Process, South of BU38-0004	05E0010-009	VI PHA SPEC	100-A-92A	los	100.800-0100350
8780.0	·		4	n		81900.0	1-96-71121	26S-muins/U	In Process, South of BU38-0004	02E0010-009	ALPHA SPEC .	100-A-92A	108	100,800-0100350
8960.0	· • "	1	T	٢			2-80-11	ACS-mulnesU	In Process, South of BU38-0004	02E0010-008	ALPHA SPEC	100-A-92A	POS I	02E0010-008'001
1810.0		;		n			10-15-9	Ph.tonium-239/240	in Process, South of 8U38-0004	02E0010-008	VIDHA SPEC	100-A-92A	los l	100,800-0100350
9600.0	ı		1	n			14596-10-2	Americium-241	in Process, South of BU38-0004		ALPHA SPEC	HOO-A-92A	Soli	02E0010-009.001
0	6	1	; 1		DCM8		1-19-0112	Dramman J	South Sand Pile	05E0010-003	ньое	RC108019	log .	200,700-0100350
l.	ŏ		j		DCN8		1-96-41151	Usanima-235	South Sand Pile	02E0010-007	нрсе	RC108019	POS	500.700-0100350
ľ	<u>ب</u>		· †		bCN8		7-69-695+1	THORIUM-230	South Sand Pile	02E0010-003	HPG6	RC108019	105	SOO 100-0100350
1	, <u>°</u>		- 											
· ·	U	: .	. i		bCN8		6-07-78661	CESIUM-134	elfq brisit ribuot	02E0010-007	45gH	RC108019	eos .	500.700-0100350
١٠ .	.0		L		bCN3		14596-10-2	FAS-muchanA	aliq bras dibos	02E0010-007	HPGe	RC108019	906	\$00.100-01003SD
l	0	<u></u>	!		bCN8			11-208	South Sand Pile		₩	RC108019	lo8	200.700-0100320
	.0	1	1 1		bcn8	0	1	162-47	eliq brisë muoë		HPGe	RC108019	los!	200,700-0100,320
35701	No.	THE POOPLE	10/004	TYND	ESTINUTE!	CARESULT (C	A CVS INO P	CONTRACTOR OF THE PARTY OF THE	AND THE PROPERTY OF THE PARTY O	ENUMBER OF STREET	WINDSONGIER MEAN		<u> </u>	
1000	1. 2.	9-7	A	医发热	10000		A CONTRACTOR OF THE PARTY OF TH	2000 100 100 100 100 100 100 100 100 100	《李子》在《李子》的《李子》	200 A 100 A	MATERIAL PROPERTY AND ADDRESS OF THE PARTY AND	الكبدني	1.	Î

UR\$10819	MENTYCOOD HPGE HPGE HPGE HPGE HPGE HPGE HPGE HPGE	02E0010-013 02E0010-013 02E0010-013 02E0010-013	BU38-0004 BU39-0001	Urankm-235 Urankm-236 AC-228 BI-212 BI-212 BI-214 K-40 PA-234 PA-234M PB-212 PB-214 PO-210 RA-226 Th-201 TL-208 Americkun-241 CESIUM-134 THÖRUM-235	15117-90-1 7440-01-1 7440-01-1 7440-34-8 14913-49-6 14733-03-0 13966-0-2 15100-28-4 15100-28-4 15002-94-1 15007-28-4 1500	0.203 pCrg 1.89 pCrg 1.89 pCrg 1.87 pCrg 1.8 pCrg 2.0.5 pCrg 0.662 pCrg 0.7 pCrg				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
UR\$10819	HPGe HPGe HPGe HPGe HPGe HPGe HPGe HPGe	025001-011 025001-013 025001-013 025001-013 025001-013 025001-013 025001-013 025001-013 025001-013 025001-013 025001-013 025001-013 025001-013 025001-013 025001-013 025001-013 025001-013 025001-013 025001-013	BU38-0004 BU39-0001	Urankm-238 AC-228 BI-212 BI-214 K-40 PA-234 PA-234M PB-212 PB-214 PO-210 RA-228 Th-201 TL-208 Americkun-241 CESIUM-134 THORUM-230	7440-31-1 7440-34-8 14913-49-8 14913-49-8 14733-03-0 13986-0-2 15100-28-4 15100-28-4 15097-28-4 13981-52-7 10031-23-9 14913-50-9 14596-10-2 14913-50-9 14596-10-2 14913-50-9 14299-63-7	1.88 pC/g 1.87 pC/g 1.8 pC/g 0.862 pC/g 0.862 pC/g 0.90 pC/g 0.90 pC/g 0.744 pC/g 0.762 pC/g 0.90 pC/g				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
URS10819 URS	ИРС6 НРС6	0250010-013 0250010-013 0250010-013 0250010-013 0250010-013 0250010-013 0250010-013 0250010-013 0250010-013 0250010-013 0250010-013 0250010-013 0250010-013 0250010-013	BU39-0001 BU39-0001	AC-228 Bi-212 Bi-214 K-40 PA-234 PA-234 PB-212 PB-214 PC-210 RA-226 Ti-231 Ti-208 Americkum-241 CESIUM-134 THORUM-230	744-034-6 14913-49-8 14733-03-0 13966-0-2 15100-28-4 15100-28-4 15002-94-1 15067-28-4 13961-52-7 10031-23-9 14932-40-2 14932-50-9 14596-10-2 13967-70-9 14299-63-7	1.87 pC/g 1.8 pC/g 0.862 pC/g 20.5 pC/g 0 pC/g 0.144 pC/g 1.83 pC/g 0.762 pC/g 0.762 pC/g 0.9 pC/g				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
URS10819 ASPA-004	НРС6 НРС6 НРС6 НРС6 НРС6 НРС6 НРС6 НРС6	02E0010-013	BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001	Bb-212 Bb-214 K-40 PA-234 PA-234M PB-212 PB-214 PO-210 RA-226 Th-201 TL-208 Americum-241 CESIUM-134 THORUM-230	14913-49-6 14733-03-0 13968-0-2 15100-28-4 15100-28-4 15100-28-4 15902-94-1 15092-94-1 10031-23-9 14913-50-9 14596-10-2 14913-50-9 14596-10-2 13967-70-9	1.8 pC/g 0.682 pC/g 20.5 pC/g 0 pC/g 0 pC/g 3.44 pC/g 1.83 pC/g 0.782 pC/g 0.782 pC/g 0.96/g				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
URS10919 URS10919 URS10819 ASPA-004	HPGe HPGe HPGe HPGe HPGe HPGe HPGe HPGe	02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013	BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001	K-40 PA-234 PA-234 PB-212 PB-214 PC-210 RA-226 Th-231 TL-208 Americkum-241 CESIUM-134 THORUM-230	13966-0-2 15100-28-4 15100-28-4m 15092-94-1 15092-94-1 15097-28-4 13981-52-7 14932-40-2 14913-50-9 14596-10-2 13967-70-9 14269-83-7	0.862 pC/g 20.5 pC/g 0 pC/g 0.544 pC/g 1.83 pC/g 0.762 pC/g 0.564 pC/g 0.564 pC/g 0.564 pC/g 0.564 pC/g 0.564 pC/g				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
URS10819 ASPA-004	НРОВ НРОВ НРОВ НРОВ НРОВ НРОВ НРОВ НРОВ	02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013	BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001	PA-234 PA-234M PB-212 PB-212 PD-210 RA-228 Th-201 TL-208 Americum-241 CESIUM-134 THORUM-230	15100-28-4 15100-28-4m 15092-94-1 15097-28-4 13981-52-7 10031-23-9 14932-40-2 14913-50-9 14596-10-2 13967-70-9 14269-63-7	0 pC/g 3.44 pC/g 1.83 pC/g 0.782 pC/g 0 pC/g 2.24 pC/g 0 pC/g 0.564 pC/g 0 pC/g 0 pC/g				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
UR\$10819	HPGe HPGe HPGe HPGe HPGe HPGe HPGe HPGe	02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013	BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001	PA-234M PB-212 PB-214 PO-210 RA-226 Th-231 TL-208 Americlum-241 CESIUM-134 THORUM-230	15100-28-4m 15092-94-1 15097-28-4 13981-52-7 10031-23-9 14932-40-2 14913-50-9 14596-10-2 13967-70-9 14269-63-7	3.44 pCVg 1.83 pCVg 0.782 pCVg 0 pCVg 0 pCVg 2.24 pCVg 0 pCVg 0.584 pCVg 0 pCVg 0 pCVg 0 pCVg				0 0 0 0 0
UR\$10819 ASP-A-004	HPGe HPGe HPGe HPGe HPGe HPGe HPGe HPGe	02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013	BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 East Trench	PB-212 PB-214 PC-210 RA-226 Th-231 TL-208 Americkum-241 CESIUM-134 THORUM-230	15092-94-1 15087-28-4 13981-52-7 10031-23-9 14932-40-2 14913-50-9 14596-10-2 13967-70-9 14269-63-7	1.83 pC/g 0.782 pC/g 0.782 pC/g 0 pC/g 2.24 pC/g 0 pC/g 0.564 pC/g 0 pC/g 0 pC/g				0 0 0 0
URS10819 URS10810 URS10810 URS10819 URS10819 URS10810 URS10810 URS10810 URS10810 URS10810 URS10810	HPGe HPGe HPGe HPGe HPGe HPGe HPGe HPGe	02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013	BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001	PB-214 PO-210 RA-226 Th-231 TL-208 Americken-241 CESIUM-134 THORUM-230	15067-28-4 13981-52-7 10031-23-9 14932-40-2 14913-50-9 14596-10-2 13967-70-9 14269-63-7	0.782 pCVg 0 pCVg 2.24 pCVg 0 pCVg 0.564 pCVg 0 pCVg 0 pCVg 0 pCVg				0 0 0 0
URS10819 ASPA-004	HPGe HPGe HPGe HPGe HPGe HPGe HPGe HPGe	02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013	8U39-0001 8U39-0001 8U39-0001 8U39-0001 8U39-0001 8U39-0001 8U39-0001 8U39-0001 8U39-0001	PO-210 RA-226 Th-231 TL-208 Americlum-241 CESIJM-134 THORIJM-230	13981-52-7 10031-23-9 14932-40-2 14913-50-9 14596-10-2 13967-70-9 14269-63-7	0 pC/g 2.24 pC/g 0 pC/g 0.564 pC/g 0 pC/g 0 pC/g 0 pC/g				0 0 0
URS10819 URS10819 URS10819 URS10819 URS10819 URS10819 URS10819 URS10819 ASPA-004	HPGe HPGe HPGe HPGe HPGe HPGe HPGe HPGe	02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013	BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 East Trench	RA-228 Th-231 TL-208 Americlum-241 CESIUM-134 THORUM-230	10031-23-9 14932-40-2 14913-50-9 14596-10-2 13967-70-9 14269-63-7	2.24 pCl/g 0 pCl/g 0.564 pCl/g 0 pCl/g 0 pCl/g				0 0 0
UR\$10819 UR\$10819 UR\$10819 UR\$10819 UR\$10819 UR\$10819 UR\$10819 UR\$10819 ASP-A-004	HPGe HPGe HPGe HPGe HPGe HPGe HPGe HPGe	02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013 02E0010-013	8U39-0001 8U39-0001 8U39-0001 8U39-0001 8U39-0001 8U39-0001 8U39-0001 East Trench	Th-231 TL-208 Americum-241 CESIUM-134 THORIUM-230	14932-40-2 14913-50-9 14596-10-2 13967-70-9 14269-63-7	0 pCVg 0.584 pCVg 0 pCVg 0 pCVg				0 0 0
URS10819 URS10819 URS10819 URS10819 URS10819 URS10819 URS10819 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004	MPGe HPGe HPGe HPGe HPGe HPGe HPGe HPGe H	02E0010-013 02E0010-013 02E0010-013 02E0010-013	BU39-0001 BU39-0001 BU39-0001 BU39-0001 BU39-0001 East Trench	Americium-241 CESIUM-134 THORIUM-230	14596-10-2 13967-70-9 14269-63-7	0.584 pCVg 0 pCVg 0 pCVg				Ö
UR\$10819 UR\$10819 UR\$10819 UR\$10819 A\$P-A-004 A\$P-A-004 A\$P-A-004 A\$P-A-004 A\$P-A-004 A\$P-A-004 A\$P-A-004 A\$P-A-004 A\$P-A-004 A\$P-A-004	HPGe HPGe HPGe HPGe HPGe HPGe HPGe HPGe	02E0010-013 02E0010-013 02E0010-013	BU39-0001 BU39-0001 BU39-0001 BU39-0001 East Trench	CESIUM-134 THORIUM-230	13967-70-9 142 69-6 3-7	0 pCl/g				
URS10819 URS10819 URS10819 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004	HPGe HPGe HPGe HPGe HPGe HPGe HPGe HPGe	02E0010-013 02E0010-013	BU39-0001 BU39-0001 BU39-0001 East Trench	THORIUM-230	14269-63-7					
UR\$10819 UR\$10819 A\$P-A-004	HPGe HPGe HPGe HPGe HPGe HPGe HPGe HPGe	02E0010-013	BU39-0001 BU39-0001 East Trench			0 pC/g	, ,			
UR\$10819 ASP-A-004	HPGe HPGe HPGe HPGe HPGe HPGe HPGe		BU39-0001 East Trench	Uranium-235						0
ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004	HPGe HPGe HPGe HPGe HPGe HPGe	02E0010-013	East Trench	111	15117-96-1	0 pCVg				0
ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004	HPGe HPGe HPGe HPGe HPGe			Uranium-238 AC-228	7440-61-1 7440-34-8	3.03 pCVg				0
ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004	HPGe HPGe HPGe HPGe		East Trench	BI-212	14913-49-6	1.1 pC/g	-			ļ <u>-</u>
ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004	HPGe HPGe HPGe	ļ	East Trench	BI-214	14733-03-0	0 pCVg 0.442 pCVg				
ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004	HPGe HPGe	i i	East Trench	K-40	13968-0-2	13.1 pCVg				
ASP-A-004 ASP-A-004 ASP-A-004 ASP-A-004	HPGe		East Trench	PA-234	15100-28-4	0 pCVg				(- i
ASP-A-004 ASP-A-004 ASP-A-004			East Trench	PA-234M	15100-28-4m	0 pCVg				1
ASP-A-004	🕶		East Trench	PB-212	15092-94-1	0.952 pCVg				
	HPGe		East Trench	PB-214	15067-28-4	0.491 pCVg				
ASP-A-004	HPGe		East Trench	PO-210	13981-52-7	0 pCVg				<u> </u>
	HPGe		East Trench	RA-228	10031-23-9	3.71 pCVg				ļ
	HPGe		East Trench	Th-231	14932-40-2	0 pCVg	<u> </u>			ļk.
ASP-A-004	HPGe		East Trench	TL-208	14913-50-9	0.326 pCl/g	_ -			
ASP-A-004 ASP-A-004	HPGe HPGe		East Trench East Trench	Americium-241 CESIUM-134	14596-10-2 13967-70-9	0 pCVg				<u>:</u> :
	HPGe		East Trench	ITHORIUM-230	14269-63-7	0 pCVg				, ·-
										f +-
							-t - t-	† -		
										0
				B1-212		0 pCVg				ō
ASP-A-004	HPGe	02E0010-014	East Trench	BF214	}	0.442 pCVg				0
		02E0010-014	East Trench	K-40	13966-0-2		_1 1.	i		0
						0 pCVg				. 0
										<u>:</u> <u>.</u> 0
								·		0
					112001.62.7		-			
							- -			0
					10001-25-5					01
					i					
			East Trench	Americium-241	14596-10-2					0.
	HPGe	02E0010-014	East Trench	CESIUM-134	13967-70-9		T			0
ASP-A-004	HPGe	02E0010-014	East Trench	THORIUM-230	14269-63-7	0 pCVg	1			0
	HPGa .	02E0010-014	East Trench	Uranium-235	15117-96-1	0.23 pCVg				O O
		02E0010-014	East Trench	Uranium-238	7440-81-1	0 pCVg				0
						1.07 pCVg	I			
			Stockpile 1 S		14913-49-6	1.45 pCVg				1
			Stockpile 1 S			0.61 pCVg	 -			i.
		ļI								
						O pCVg	- -			-
						O POLYO	1.	i	,	
						O BALINCUM				1 1
						6820 pCVn	+			-
				RA-226	10031-23-9		+)
			Stockpile 1 S	Th-231	14932-40-2	0 pCVg	1			
ASP-A-004	HPGe		Stockpile 1 S	TL-208	14913-50-9	0.366 pCVg				
			Stockpile 1 S	Americium-241	14596-10-2	0 pCVg	1	$\Box \Box$		
ASP-A-004	HPGe		Stockpile 1 S			0 pCVg				_ 1
			Stockpile 1 S			0.236 pCVg	+			
ASP-A-004	HPG6		Stockpile 1 S			2.88 pC/g			!	 -
	ASPA-000	ASPA-004 HPGe	ASP-A-004 HPGe ASP-A-004 HPGe O2E0010-014 ASP-A-004 HPGe ASP-A-004 H	ASP-A-004 MPGe	ASP-A-004 MPGe	ASP-A-004 HPGe	ASP-A-004 HPGe	ASP-A-004 HPGe East Trench Urnitum-235 15117-96-1 0.23 jc/lp	ASP-A-004 HPGe East Trench Urantum-235 1517-96-1 0.23 pC/by	ASP-A004 HPGe

		00	0		o	0.0		0		• · · ·	0		·		•	-	:			;		;	•	:		0	o i	,	000	10	; o i c	0	0	0.0	0	0	ō	0										-		-	•	0	_
				-		+			.!																					+																							
	题	0.61 pC/g	13.5 PCV0	200	0.89 pC/g	0.84 pC/g	0 000	0 pC//0	-	0 000	0 po	0.236 pCVg	2.88 pC/9	0,0d (0	0.445 pCVg	0.000	o pcie	0.711 pC/0	0.534 pC/0	0.00.0	900	0.325 pC/10	900	0 DC/0	3.48 pC/0	0.909 pC/g	0 000	0.445 pC/lg	0 000	0 00%	0.711 pc/g	\$270 pCVg	900 0	0.325 000	0 pCtg	0 00	0.289 pCVp	3.48 pC/g	1.01 PC/g	1.36 pC/g	- PC/s	o pCtg	00000	0.568 pCl/o	0 0	200	0.35 pC/n	200	0 0	0.27 pC/g	1.81 pCh	2010	-72-
	LCAS NO		13966-0-2	:		13981-52-7	10031-23-9		14606-40.3	13967-70-9	14269-63-7	15117-96-1	7440-34-8	14913-49-6	14733-03-0	15100-28-4	15100-28-4m	15092-94-1	13067-28-4	10031-23-9	14932-40-2	14513-50-9	13967-70-9	14269-63-7	7440-81-1	7440-34-8		13966-0-2				13981-52-7	10031-23-9		14596-10-2	13967-70-9	15117-96-1	7440-81-1	7440-34-8	14733-03-0	13966-0-2	15100-28-4	15092-94-1	15067-28-4	13961-52-7	14832-40-2	14913-50-8	14596-10-2	14269-63-7	15117.96-1	7440-61-1	2000	
UBCT23 Analytical Data		8-214 8-214	K-40	PA-234M	PB-212	PO-210	RA-226	Th-231	11-208 American 241	CESIUM-134	THORIUM-230	Uranium-235	Ordinati-230 AC-228	81-212	8-2-4 X-10	PA-234	PA-234M	PB-212	90.210	RA-228	11-23	American-241	CESIUM-134	THORIUM-230	Uranium-238	AC-228	81212	BF214 K-40	PA-234	PA-234M	PB-214	PO-210	RA-226	., TL-208	Americum-241	CESTUM-134	Urankm-235	Uranium-238		9F214				PB-214				Americum-241 CESMINA 134	THORIUM-230	Urantum-235	Orangin-238	077.00	
		Stockpile 1 S	Stockpile 1 S	Stockpile 1 S	Stockpile 1 S	Stockpile 1 S	Stockpile 1 S	Stockpile 1 S	Shockolle 1.5	Stockpile 1 S	Stockpile 1 S	Stockpile 1 S	Stockpile 2 M	Stockpile 2 M	Stockpile 2 M	Stockpile 2 M	Stockpile 2 M	Stockpile 2 M	Stockolle 2 M	Stockpile 2 M	Stockpile 2 M	Stockolle 2 M	Stockpile 2 M	Stockpin 2 M	Stockpile 2 M	Stockpile 2 M	Stockpile 2 M	succepte 2 M	tockpile 2 M	Stockpile 2 M	tockpile 2 M	tockpile 2 M	tockple 2 M	tockpile 2 M	Stockpile 2 M	tockple 2 M	tockpile 2 M	tockpile 2 M	octobe 3 N	OCKOR 3 N	tockpile 3 N	tockoffe 3 N	tockpie 3 N	tockpile 3 N	tockole 3 N	tockpite 3 N	tockpile 3 N	tockode 3 N	tockpite 3 N	tockpile 3 N	tockoffe 3 N		
		02E0010-015	02E0010-015	02E0010-015	02E0010-015	02E0010-015	02E0010-01\$	0250010-015	02E0010-015	1	02E0010-015	0250010-015	2000		1	-									1	1 1		02E0010-016							02E0010-016 S					8	S	S	98	S	200	8	S	n in	S	000	02E0010-017 S	1	
	THE PROPERTY OF THE PERSON NAMED IN COLUMN 1	нРСе	HPG.	нРСе	HPGe	HPGe es	H Co	HPGe	80	нРСе	нРGe	3 3	HPGe	НРСе	3 9	HP.G	нРСе	H Poe	HPGe	HPGe	8	HPGe	XPGe	9 CH	HPGe	нРСе	HPGe	HPG.	нРСе	20 T	FP.	нРСе	HPGe FPGe	HPGe 1	НРС	95 d	HPGe	HPGe	HPG6	HPGe	HPGe	PG-	PGe	4PGe	3 6	(PGe	4PGe	88	1PGe	8 8	3	200	
	A SP. A. CO.		ASP-A-004			.1		•		:	ASP-A-004				ASP-A-004		ASP-A-004	- 1	1	1 1	ASP-A-004				ASP-A-004												i I	ASP-A-004	- 1			- 1		1 1	i i	ł 1		i	1 1		1	ł	
	25.00	Sot	3.3	105	705							:				Sol	38																																				
,§ - ‡↓	07E0010-015.001	E0010-015.001	DEE0010-015.001	27E0010-015.001	02E0010-015.001	02E0010-015.001	QEC0010-015.001	XE0010-015.001	(2E0010-015.001	ØE0010-015.001	QZE0010-015.001	RZE0010-015.001	: 1	- 1		02E0010-018,001		- 1	1 1			1 1	ı	í	1 1	- 1	•	1 1	1 1	- 1	1 1		•		- 1	1	1 1		1	1 1	- 1				i		02E0010-017-001	1	0250010-017.001	1		Г	







Section Color Co				distribution :		And American	E de la Constante de la consta	276 AT	316		* Y		204
Secretar	02E0010-017-001	(Sol	ASP-A-004					- CASIMUM		· ·	erin i e e e e e e e e e e e e e e e e e e	0.	Contract Con
Secretary Sec. Se								 		+			
Section Sect			ASP-A-004			Stockpile 3 N	PB-212		1.08 pCirg				
Section Sect													
Section Sect													
Section Sect								10031-23-9					
STORY STOR		Sol								-			
SECTION Sect								14500 10 3					
September Sept										+			
Care-Color Care C										+			
Section Sect													. 1
26991400 261													
Section Sect												7	
George G	02E0010-018.001	Sol	ASP-A-004	HPGe	1	Stockpile 3 N	BI-212	14913-49-8	1.71 pCVg				
Section Sect		Sol		HPGe								. i i	: :
2000-0-10-10 Set												1	
Secretarion													
Composition Gal ASP-Acco Price Stocked N Po-14 1507-264 0.004 Composition Comp						Stockpile 3 N							
Section Sect						Stockpile 3 N	PB-212		0.778 pCV0	 			
Section Sect					ļ								
Commonstration Section Commonstration Commonstrat					ļ		PO-210			 			L
Composition						Stockpie 3 N	Th 224		U pCVg			-+ - 4	
Composition See ASP-AGN Pipe Stocky 1 American 11 1967-10 0 0 0 0 0 0 0 0 0					 	Succepted 3 N				+			
CRESSIDATION Set ASP-AGO PPGs Stocky 1 CRESSIDATION 1097-70-6 O CPG O CRESSIDATION CR					ļ					+			
December					ļ				O UCAU				· · · · · · · · · · · · · · · · · · ·
										-			-
Common C													
Common C										- -		+	
ASP-ACOL IPGs ASP-ACOL IPGs OZE0010-018 Stockeh IN R-214 O.77 pGs OZE0010-010 Stockeh IN R-2 OZE0010-010 OZE0010-010 Stockeh IN R-2 OZE0010-010 OZE0010					02E0010-018				1 pCVg			··· 6;	
ASP-ACOL IPGs ASP-ACOL IPGs OZE0010-018 Stockeh IN R-214 O.77 pGs OZE0010-010 Stockeh IN R-2 OZE0010-010 OZE0010-010 Stockeh IN R-2 OZE0010-010 OZE0010				HPGe			BI-212	-	1.71 pCVg	1. 1.	- 1	0	
CECONICO Sol ASP-AGM IPPG OZEONICO Sindpin Sindpin N PAZIAM 0 PCIQ 0 0 0 0 0 0 0 0 0	02E0010-018.001	Sof	ASP-A-004	HPGe	02E0010-018	Stockpile 3 N	BF214		0.47 pC/g	1 1		0	
CONTROLOGIC Sel								13966-0-2					
ASP-A-004 IPICe 025010-010 Sed ASP-A-004 IPICe 025010-015 Seckeps 3 N P9-212 0.778 CPC 0.00 CPC 0.00 0.00													
Commonstration Seal ASP-A-OM PPCe COE001-015 Sockpe 3 N PO-210 13961-527 O CCP O O O O O O O O O										. Ii	1		
CESTITION Seal ASP-A001 HPGe OZEDITO-18 Stockph 3 N PO-210 13981-527 0 pC/p 0 0 0 0 0 0 0 0 0								ļ	0.778 pCVg				'
CERTIFICATION Sel ASP-A004 PPGe CERTIFICATION Stockeds N Th-231 0,000 0,00													
ASP-A-004 HPGe													
The Composition Compositio								10031-23-9					
ASP-ADD NOTE ASP-ADD NPCe DEEDIGOTE Stocke N American-241 1456-10.2 0 (c/g 0) 0 0 0 0 0 0 0 0								ļ				- .	
Description Sol ASPA-DOA HPGe OZE0010-018 Sock@B N CESUM-134 13967-70-9 O O O O O O O O O								14508-10-2					·
DECONO-18 COT Soil ASP-A-004 IPC6 025010-018 Stockyle 3 N THORIUM-230 1420-04-7 0 CPQ 0 0 0 0 0 0 0 0 0									O oCVo	-			
DECONO-FIRED Seek ASP-A-DM HPGs DECONO-FIRE Standard N													
応受的の行動の対 Sol										+			
December See ASP-A-004 ALPHA SPEC 0750010-019 BU39-0011 American-241 14596-10-2 0.0863 PC/U U 0.00													
DEEDITIO-078 001 Sed ASP-A-004 ALPHA SPEC 0250010-019 BU39-0011 Plutonkum-23940 10-12-5 0.00733 PCVG U 0.00									0.0665 PCVG	ייי		- T.	0.0916
DECOND-018-001 Soil ASP-A-OOI ALPHA SPEC 0250010-018 BUJS-0011 Urankm-224 11-09-5 0.5370 PCUG J 0.000													0.0288
GEFORD-OFFS DOT Sol													0.202
CE-2001-0-019-002 Soil	Q2E0010-019.001		ASP-A-004	ALPHA SPEC .	02E0010-019	BU39-0011		15117-96-1	0.00505 PCVG	U		- :	0.125
Page	Ø2E0010-019.001				02E0010-019					13		1	0.0949
Page												1 0	
Part			URS108							1			
## PGE 0010-019.002 Sol UR\$108 HPGe 02E010-019 BU39-0011 PA-234M 15100-28-4m 0;c/kg 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			UR\$108	HPGe						l			
ØECO10-019-0002 Soil URS108 HPGe 02E0010-019 BU39-0011 PB-212 15507-94-1 1,15 pC/y ₀ 0 0xEC010-019.0002 Soil URS108 HPGe 02E0010-019 BU39-0011 PB-214 15067-28-4 0.79 pC/y ₀ 0 0xEC010-019.0002 Soil URS108 HPGe 02E0010-019 BU39-0011 RA-226 10031-23-9 4.14 pC/y ₀ 0 0xE0010-019.0002 Soil URS108 HPGe 02E0010-019 BU39-0011 Th-231 1493-40-2 0 pC/y ₀ 0 0xE0010-019.0002 Soil URS108 HPGe 02E0010-019 BU39-0011 Th-231 1493-40-2 0 pC/y ₀ 0 0xE0010-019.0002 Soil URS108 HPGe 02E0010-019 BU39-0011 Th-231 1493-40-2 0 pC/y ₀ 0 0xE0010-019.0002 Soil URS108 HPGe 02E0010-019 BU39-0011 Th-231 1459-40-02 0 pC/y ₀ 0 0xE0010-019.0002 Soil URS108 HPGe												,_: ,	
### PGE 010-019.002 Sol UR\$108 HPGe 02E0010-019 BU39-0011 PB-214 15067-29-4 0.79 CP/g 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0													
### 6010-019.002 Sol										.i. 1			
CEEDID-019.002 Soil UR\$108 HPGe 02E0010-019 8U39-0011 R.A.226 10031-23-9 4.14 CCHg 0 0 0 0 0 0 0 0 0												<u>ç</u>	
ΦΕΦΟ16-019.002 Soil UR\$108 HPGe 02E0010-019 8U39-0011 Th-231 14932-40-2 0 c/c/p 0 ΦΕΦΟ10-019.002 Soil UR\$108 HPGe 02E0010-019 8U39-0011 Th-208 14913-50-9 0.328 c/c/p 0 ΦΕΦΟ10-019.002 Soil UR\$108 HPGe 02E0010-019 8U39-0011 Americkm-241 14596-10-2 0 c/c/p 0 ΦΕΦΟ10-019.002 Soil UR\$108 HPGe 02E0010-019 8U39-0011 CESUM-134 13967-70-9 0 c/c/p 0 ΦΕΦΟ10-019.002 Soil UR\$108 HPGe 02E0010-019 8U39-0011 THORRUM-20 14289-80-7 0 c/c/p 0 ΦΕΦΟ10-019.002 Soil UR\$108 HPGe 02E0010-019 8U39-0011 Urankun-235 15117-96-1 0 c/c/p 0 ΦΕΦΟ10-019.002 Soil UR\$108 HPGe 02E0010-019 8U39-0011 Urankun-235 15117-96-1 0 c/c/p 0 ΦΕΦΟ10-019.002 Soil UR\$108 HPGe<									4 t4 oCVo		-		
CEC010-019.002 Sole URS108 HPGe 02E0010-019.001 T1_208 14913-50-9 0.328 pCkg 0 E0010-019.002 Sole URS108 HPGe 02E0010-019 BU39-0011 Americkm-241 14596-10-2 0 pCkg 0 E0010-019.002 Sole URS108 HPGe 02E0010-019 BU39-0011 THORIUM-230 14269-83-7 0 pCkg 0 QE0010-019.002 Sole URS108 HPGe 02E0010-019 BU39-0011 THORIUM-230 14269-83-7 0 pCkg 0 QE0010-019.002 Sole URS108 HPGe 02E0010-019 BU39-0011 Urankum-235 15117-96-1 0 pCkg 0 CED010-019.002 Sole URS108 HPGe 02E0010-019 BU39-0011 Urankum-235 15117-96-1 0 pCkg 0 CED010-019.002 Sole URS108 HPGe 02E0010-019 BU39-0011 Urankum-235 1517-96-1 0 pCkg 0 CED010-019.002 Sole URS108 HPGe 02E0010-020													-
Composition											-		
№ 20010-019.002 Soil URS108 HPGe 02E0010-019 BU39-0011 CESIUM-134 13967-70-9 0 pC/g 0 ©E0010-019.002 Soil URS108 HPGe 02E0010-019 BU39-0011 THORIUM-230 14269-83-7 0 pC/g 0 ©E0010-019.002 Soil URS108 HPGe 02E0010-019 BU39-0011 Uranium-235 1511-09-1 0 pC/g 0 ©E0010-019.002 Soil URS108 HPGe 02E0010-019 BU39-0011 Uranium-235 17140-81-1 3.09 pC/g 0 ©E0010-019.002 Soil URS108 HPGe 02E0010-019 BU39-0011 Uranium-238 7440-81-1 3.09 pC/g 0 ©E0010-020.001 Soil ASP-A-004 ALPHA SPEC 02E0010-020 BV39-0003 Americam-241 14596-10-2 0.0006 PC/G U 0.04										71			4
DE0010-019.002 Sole URS108 HPGe 02E0010-019 BU39-0011 THORIUM-230 14269-63-7 0 pC/ly 0 (₩E0010-019.002 Sole URS108 HPGe 02E0010-019 BU39-0011 Urankum-235 15117-96-1 0 pC/ly 0 (₩E0010-019.002 Sole URS108 HPGe 02E0010-019 BU39-0011 Urankum-238 7440-91-1 3.09 pC/ly 0 (₩E0010-019.000 Sole ASP-A-004 ALPHA SPEC 02E0010-020 BV39-0003 Americum-241 14596-10-2 0.0006 PC/l/G U 0.04										1			
DEE0016-019-002 Sel										T	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
## CE0010-019.002 Sol URS108 HPGe 02E0010-019 BU39-0011 Uranium-238 7440-61-1 3.09 pC/g 0.004	Q€0010-019.002	Sol	URS108	HPGe	02E0010-019	BU39-0011	Uranium-235	15117-96-1	0 pCVg			0	
E0010-020.001 Sol ASP-A-004 ALPHA SPEC 02E0010-020 BV39-0003 Americam-241 14596-10-2 0.0306 PCVG U 0.04	020010-019.002	Soll	UR\$10B		02E0010-019				3.09 pCVg			0.	8
MB0010-020.001 Soil ASP-A-004 ALPHA SPEC 02E0010-020 BV39-0003 Phitonhym-239/240 110-12-8 0.00357 PCVG U 10-12-8 U									0.0308 PCVG	U			0.0459
1. 100. 100. 100. 100. 100. 100. 100. 1				ALPHA SPEC	02E0010-020	BV39-0003	Plutonium-239/240	10-12-8	0.00357 PCVG	!U		1	0.0342

fol *

0.133	0.123	11.0		1	_		:	. ;					-		;	-	80	0.0962	200	0.179	0.178	ļ		•			:	1	:		:	:		-	•				:	:		; ;	-		7			 .	0 0 7 8 1	0.0561	0.11	0.00	750:			:	1
	-1		-	- i			0	o` :		o'o	0 0	· ;			0	·о			1			o ' (5 °c		0	•	o" c !	ة أة ا	10	. o`	ole	5 6		0	0.0		~		ە``ە 	- 6	0	0	0	0	0		Ö	•!					†a	0	ō	-	o
		;	-		:			-			·									1		:								1 : :			-			:			1							:			ı				* * * * * * * * * * * * * * * * * * * *			** ** *** *** ****** *****	
7	0							-			-		-	-				-		1	7							-			-		-			- ; - -												-	:		7	+			***************************************		
0.97 PCVG	O COS PCVG	0.785 PCVG	200	0611.000	17.9	o o	o o	1.26 pC/0	0.912 pC/g	200	0000	0.387 0.00	000	O	o pC/lo	0.302 pC/0	3.7 200	0.0139 PCMG	DOM PONO	0.0456 PCIVG	0.78 PCI/G	900	0.00	18.3 pC/g	o pCtg	ညီ ဝ	0,000 000	900	స్టే	ర్జ	0.422 pClg	30	ð	0.228 pC/g	5.0819076	1.06 PCM	0.531 pC/g	20 G	2 6	0.982 pC/v	0.587 pC/lg	0 000	Ž.	000	0 000	0 pC/g	0 200	0.259 pC/0	0.0398 PCVG	0.00984 PCI/G	0.842 PCVG	0.0633 PCIVG	200 E	2.21 pC//g	0.543 pCVg	1.3 PQ	0 000
11-08-5	15117-96-1	7440-61-1	140-34-0	14733-03-0	13966-0-2	15100-28-4	15100-28-4m	15092-94-1	15067-28-4	1.5961-52-7	14012-40.2	14913-50-9	14598-10-2	13967-70-9	14269-63-7	15117-96-1	7440-61-1	14596-10-2	11-08-5	15117-96-1	7440-81-1	7440-34-8	14733-03-0	13966-0-2	15100-28-4	15100-28-4m	5067.284	13981-52-7	10031-23-9	14932-40-2	14913-50-9	13967-70-9	14289-83-7	15117-96-1	7440-61-1	14013-48-6	14733-03-0	13966-0-2	5100-28-4	5092-94-1	5067-28-4	13981-52-7	0031-23-0	14832-40-2	14596-10-2	13967-70-9	4269-63-7	15117-98-1	4596-10-2	10-12-8	1-08-6	15117-98-1	7440-34-8	14913-49-6	4733-03-0	3966-0-2	5100-28-4
		***************************************	-	-																-			1				-						-				-		-						-		-		,		-		-	-	-		1
Urantum-234	Oramina-233	Oranium-238	1212	1214	K-40	PA-234	PA-234M	9-212	PB-214	PO-210	h-231	1-208	mericum-241	ESIUM-134	HORIUM-230	Urantum-235	Urantum-238	Ohmoham, 239/240	Jransum-234	Jransum-235	ranium-238	CZZB	1214	40	A-234	A-234M	8-214	0-210	A-226	F-231	-208 metric m. 244	CESIUM-134	HORIUM-230	rankum-235	ranum-238	BF212	BL214	K-40	PA-234	PB-212	PB-214	PO-210	RA-226	208	Americkum-241	CESIUM-134	THORIUM-230	Urantum-235	American-241	Plutonium-239/240	Uranium-234	Urantum-235	AC-228	81-212	214	K-40	PA-234
2	2	9	< a			Δ.	a	0.10		7:0			×	0	1	2	O C	< a	12	O.	2	X I		×	(P)	a i		ā	2	F (0	F	5	5	89	18	2 6	ìà	ā		2	3 4		1	Ö	Ė	5 3	5 2	ď	5	5	¥	6	6	\$	2
3V.39-0003	BY 39-000	BV39-0003	3739-0003	3739-0003	3739-0003	3739-0003	3739-0003	3739-0003	5V39-0003	200000	1739-0003	3V39-0003	1V39-0003	3739-0003	3V39-0003	1739-0003	BV39-0003	RV30-0003	8739-0003	BV39-0003	BV39-0003	BV39-0003	BV39-0003	BV39-0003	1739-0003	BV39-0003	V39-0003	V39-0003	BV39-0003	BV39-0003	BV39-0003	BV39-0003	8739-0003	BV39-0003	Sinctons 1	Stockple 1	Stockoffe 1	Stockpile 1	Stockolle 1	Stockpile 1	. Stockpile 1	Stockpile 1	Stockore 1	Stockolle 1	Stockpile 1	Stockpile 1	Stockpile 1	N. Stockpile 1	N. Stockpile 1	Stockpile 1	N. Stockpille 1	N. Stockolle 1	M. Stockpile 2	M. Stockpile 2	M. Stockpile 2	M. Stockpile 2	. Stockpile 2
OZEOO10-OZO	מכנים מכנים	UZECO10-0ZO	0250010-020	02E0010-020	02E0010-020	02E0010-020	02E0010-020	0250010-020	UZEUO10-OZO	0250010000	0250010-020	02E0010-020	02E0010-020	02E0010-020	02E0010-020	02E0010-020	02E0010-020	02F0010-021	QZE0010-021	02E0010-021 B	02E0010-021	OZEODIO-OZI	02E0010-021	02E0010-021 B	02E0010-021	02E0010-021	200	02E0010-021 B	02E0010-021 B	02E0010-021	02E0010-021	02E0010-021 B	ē	02E0010-021 B	02E0010-021 B	02E0010-022 N	02E0010-022 N	02E0010-022 N	02E0010-022 N	02E0010-022 N	02E0010-022 N	02E0010-022 N	0ZE0010-0ZZ N	02E0010-022 N	02E0010-022 N	72E0010-022 N	02E0010-022 N	OZECO10-CZZ N	, ,	2	7	OZEO010-OZZ		2	8 2	72E0010-023 M	ZE0010-023
SPEC	3750	KDCs											***************************************				COC	Spec	SPEC	SPEC	SPEC																																				1
Y .	SEL	2 6	S &	1	F S	: !	- 1	- 1	- 1	1	1	1	1	1	1		t		ALPHA SPEC	1)	- 1	T	\$ £	П		3		7	ĪĪ	í	- 1	1	i 1	- 1	i	P.		- 1	1			. 1	Т	3 0 E	Т	₩ 80	\$ 2	T	1	ALPHA 8	ALPHAS	ALPHA SPEC	1	П	S C	Т	
ACP ACP	100	100400	URSTOB	UR310B	URS108	URS108	URSTOB	URSTOR	90100	88108		URS108	URS108	URS108	URS108	CRS108	OKSTUB A CO.	ASP A OOL	ASP-A-004	ASP A 004	ASP-A-004	90100	URSTOB	URS108	URSTOB	URSTOR	URS108	URSTOB	URS108	URS108	URSTOR	URS108	URS108	URS108	URS10819	URS10819	URS10819	URS10819	URS 10819	URS10819	URS10819	URS10819	UKSTUBIT	URS 10819	URS10819	URS10819	URS10819	UKSTUBLE	ASP.A.004	ASP-A-004	ASP-A-004	ASP.A-CO.	UR\$10819	UR\$10819	URS10819	UKS10819	1001570
	****																									***************************************																															
	ı	1	1	1	,	- 1	•		1		1	1	: 1	lI		1	- 1				- 1		1	1 1	- 1	•			1 1	- 1	1	1 :	1 í	- 1	1	30	- 1	- 1	+	1 1		$-\mathbf{r}$	_	1-	7		_	3	T	П	T	3	П	П	Ī	T	
3 8			ğ	0-020-0	0000	0000	0.000			0000	0.020	0.020-0	0-020.0C	0-020.0C	0.000	500	200	9	0021.00	9021.00	200	200	0.120-0	9021.00	001.00	2.5	00100	0021.00	0-021.00	8 8	200	001200	0-021.00	8 8	220	02E0010-022.001	8 8		8	222	02200	8 8		8	00 220	022 00	02E0010-022.001	OF CONTRACT OF	20.00	02E0010-022.002	8 8		023.00	GZE0010-023,001	8 8	WEND OF THE PROPERTY OF THE PR	3

Company Comp	ş		5		COLUMN 1			760		اللخاوا	ALIEN	FVVS		1	
General December General Dec		أنا و العالمة المائة	1 125	是他们现在的	REALIZE NOM		I for the first the state of th	CAS NO	RESULTA		COLE	ice.	المنافقة الما	diam's	200.52
Section March Million Millio									0.641	i pCl/g		ļ			
1999-200 M. 1991 1982 1993 199												ļ		0	
Secretary Company Co												ļ. —			.
Section Sect												j	· · ·		
Section Sect	02E0010-023.001														- 4
1999-12-07 Per											+ -	i		٥.	1
Section Section Proceedings Proceedings Section Process Proces											7	1		0	1
2007-2007-2007-2007-2007-2007-2007-2007		Sol	URS10819	HPGe	02E0010-023	M. Stockpile 2	Uranium-235		0.2	1 pCVg		1		0	i]
Septiment Company Co									2.12	DC/0				0	8
General College General Co	02E0010-023.002														
Company Comp	02E0010-023.002		ASP-A-004								ļU	-		I	
George G											- -	 -			
Common C								7440-61-1				 -		:	
Company Comp	02E0010-024-001												, ,	٠ ٥'	١٠
Company Comp	02E0010-024,001											1		. 0	1
Company Comp		Sol		HPGe	02E0010-024	M. Dupe 2	BI-214		0.501	1 pCi/g				0	
April												1		. 0	1
Composition												1		0.	1
SECOND-SELECT Section												<u> </u>		0	
SECOND-024 LOT Set							PB-212		1.17	IPCV9		!		, 0	
CRESTRICATION Sept														0,	- 1
CONTROLOGY OF Set UP\$10019 IPPG CONTROLOGY IV. Ope 2 Th.201 14913-0-2 0.75 0.70 0. 0												 		Ų.	
CRESTRICATION Sept CRESTRICATION CREST								14033-40-2			+			-	
200010-202.007 504 URS10011 IPPGs 000010-022 U. Dyse 2 American-241 (1596-10-2) O. Cry O. C													**********	- 6	
															4
											-1			0	· 1
Composition				HPGe				14269-63-7			1			0	
														0	
														0	6
CECOTIO CAS. DE ASP-ACM ASP-AC											U	ļ			
CECCOTICAZIONE Sea											ļu .	ļ			
Description Section											J				
DECEMBER 1984 UR\$10819 PFOe 025010423 S. Sectype 3 S															
CECCOTIC CASS DOTS Seal UR\$10819 IPGe CECCOTIC CAST S. Society S. Society Seal Sea											+			0.	- 0.0403
CECTOTO CASS.DOT Sol															
CECOTO-CESS 001 Soi		Sol										1			
CEEDITICAZS-001 Sola														0	
CECOTI-OLOS.001 Sol	02E0010-025.001	Sol	UR\$10B19	HPGe	02E0010-025	S. Stockpile 3	PA-234	15100-28-4	C	pC//g				0	
DECOTIO-COZ 501 Sol										pC//g				0	
DECOTO-COZS-001 Sel														0	
CEEDITO-CAZS.001 Soil URS10619 HPGe CEEDITO-CAZS S. Sisciple 3 RA-226 10031-23-6 0 CPU 0 CEEDITO-CAZS S. Sisciple 3 Th-201 14032-40-2 0 CPU 0 CEEDITO-CAZS S. Sisciple 3 Th-201 14032-40-2 0 CPU 0 CEEDITO-CAZS S. Sisciple 3 Th-201 14032-40-2 0 CPU 0 CEEDITO-CAZS S. Sisciple 3 Th-201 14032-40-2 0 CPU 0 CEEDITO-CAZS S. Sisciple 3 Th-201 14032-40-2 0 CPU 0 CPU 0 CEEDITO-CAZS S. Sisciple 3 Th-201 14032-40-2 CPU CPU 0 CPU 0 CPU CEEDITO-CAZS S. Sisciple 3 CESUH-134 13967-70-0 CPU C									0.616	pCVg					
DECOTO-CAZS-001 Soil										pCvg		ļ			
DEED010-025-001 Soil												ļ			
DEED010-0225-001 Sold URS10819 HPGe 02E0010-025 S. Shockpile 3 Americam-241 14596-10-2 0 C/C/g 0 0 4 02E0010-025-001 Sold URS10819 HPGe 02E0010-025 S. Shockpile 3 CESUM-154 14596-170-0 0 C/C/g 0 0 0 0 0 0 0 0 0											+				
DEED010-025.001 Soil URS10819 HPGe 02E0010-025 S. Stockple 3 CESUM-134 13987-70-9 0 CUig 0 0 0 0 0 0 0 0 0											+	 			
DEEO010-0225.001 Soil UR\$10619 HPGe 02E0010-0225 S. Stoctyble 3 Uranium-235 THORIUM-230 14269-63-7 0 C/l'g 0 0 0 0 0 0 0 0 0											+	 			
DEECOTI-OZES.001 Soil URS10819 HPGe 02E0010-025 S. Stockpile 3 Uranium-235 15117-69-1 0.182 pC/lg 0 0 0 0 0 0 0 0 0											1				
DECO10-025.001 Soil URS10819 HPGe 0725010-025 S. Stockpile 3 Uranium-238 744-0-51-1 1.52 pC/ly											T			- ō	1
CZEGO10-QZS_002 Soil URS10819 ALPHA SPEC OZEGO10-QZS S. Stockpile 3 Americalm-241 14590-10-2 -0.00815 PC//G U 0.07634 CZEGO10-QZS S. Stockpile 3 Pubnium-239740 10-12-6 -0.00825 PC//G U 0.0345 CZEGO10-QZS CZEGO10-QZS S. Stockpile 3 Uranium-234 11-0-6 -0.00825 PC//G U 0.0345 CZEGO10-QZS CZEGO10-QZS S. Stockpile 3 Uranium-234 11-0-6 -0.00815 PC//G U 0.0857 CZEGO10-QZS CZEGO10-QZS S. Stockpile 3 Uranium-235 15117-96-1 0.0288 PC//G U 0.0857 CZEGO10-QZS CZEGO10-QZS S. Stockpile 3 Uranium-235 15117-96-1 0.0288 PC//G U 0.0857 CZEGO10-QZS CZEGO10-QZS S. Stockpile 3 Uranium-235 T440-34-6 1.03 PC//G U 0.0857 CZEGO10-QZS CZEGO10	02E0010-025.001	Sol	URS10819	HPGe			Uranium-238	7440-61-1	1.52	pC/o	<u>L</u> .			0:	8
CRECOTO-CGS.002 Soil	02E0010-025.002				02E0010-025	S. Stockpile 3			-0.00615	PCVG	U				
CZE0010-025.002 Solf URS10819 ALPHA SPEC OZE0010-025 S. Stockple 3 Uranium-235 15117-96-1 0.0288 PCI/G U 0.0857											U				
CZECO10-CZES.002 Self URS10819 ALPHA SPEC CZECO10-CZES S. Stockple 3 Uranham-236 7440-61-1 0.886 PC/VG J 0.0854 CZECO10-CZES (OT 1 Sold URS10819 HPGe CZECO10-CZES Wete Char BU38-0009 B1-212 14913-46-6 1.49 pC/Vg 0 0 CZECO10-CZES (OT 1 Sold URS10819 HPGe CZECO10-CZES Wete Char BU38-0009 B1-212 14913-46-6 1.49 pC/Vg 0 0 CZECO10-CZES (OT 1 Sold URS10819 HPGe CZECO10-CZES Wete Char BU38-0009 B1-214 14713-03-0 0.67 pC/Vg 0 0 CZECO10-CZES (OT 1 Sold URS10819 HPGe CZECO10-CZES Wete Char BU38-0009 K-40 13986-0-2 19.5 pC/Vg 0 CZECO10-CZES (OT 1 Sold URS10819 HPGe CZECO10-CZES Wete Char BU38-0009 PA-234 15100-26-4 0 pC/Vg 0 CZECO10-CZES (OT 1 Sold URS10819 HPGe CZECO10-CZES Wete Char BU38-0009 PA-234 15100-26-4 0 pC/Vg 0 CZECO10-CZES (OT 1 Sold URS10819 HPGe CZECO10-CZES Wete Char BU38-0009 PA-234 15100-26-4 0 pC/Vg 0 CZECO10-CZES (OT 1 Sold URS10819 HPGe CZECO10-CZES Wete Char BU38-0009 PA-234 15100-26-4 0 pC/Vg 0 CZECO10-CZES (OT 1 Sold URS10819 HPGe CZECO10-CZES (Wete Char BU38-0009 PA-234 15100-26-4 0 pC/Vg 0 CZECO10-CZES (OT 1 Sold URS10819 HPGe CZECO10-CZES (Wete Char BU38-0009 PB-214 1500-26-4 0.651 pC/Vg 0 CZECO10-CZES (OT 1 Sold URS10819 HPGe CZECO10-CZES (Wete Char BU38-0009 PB-214 1500-26-4 0.651 pC/Vg 0 CZECO10-CZES (OT 1 Sold URS10819 HPGe CZECO10-CZES (Wete Char BU38-0009 PD-214 1500-26-24 0.651 pC/Vg 0 CZECO10-CZES (OT 1 Sold URS10819 HPGe CZECO10-CZES (Wete Char BU38-0009 PC-210 13981-52-7 0 pC/Vg 0 CZECO10-CZES (OT 1 Sold URS10819 HPGe CZECO10-CZES (Wete Char BU38-0009 PC-210 13981-52-7 0 pC/Vg 0 CZECO10-CZES (OT 1 Sold URS10819 HPGe CZECO10-CZES (Wete Char BU38-0009 PC-210 13981-52-7 0 pC/Vg 0 CZECO10-CZES (OT 1 Sold URS10819 HPGe CZECO10-CZES (Wete Char BU38-0009 PC-210 13981-52-7											J				
DEED010-028.001 Soil											U	L		!	
CZE0010-028.001 Soil URS10819 HPGe CZE0010-028 Wate Char 8U38-0009 Bi-212 14913-40-8 1.49 pC/g 0 CZE0010-028.001 Soil URS10819 HPGe CZE0010-028 Wate Char 8U38-0009 Bi-214 14733-03-0 0.67 pC/g 0 CZE0010-028 CZE0010-028 Wate Char 8U38-0009 K-40 13986-02 19.5 pC/g 0 CZE0010-028 CZE0010-028 Wate Char 8U38-0009 FA-234 15100-28-4 0 pC/g 0 CZE0010-028 Wate Char 8U38-0009 FA-234 15100-28-4 0 pC/g 0 CZE0010-028 Wate Char 8U38-0009 FA-234 15100-28-4 0 pC/g 0 CZE0010-028 Wate Char 8U38-0009 FA-234M 15100-28-4 0 pC/g 0 CZE0010-028 Wate Char 8U38-0009 FA-234M 15100-28-4 0 pC/g 0 CZE0010-028 Wate Char 8U38-0009 PB-212 15002-94-1 1.59 pC/g 0 CZE0010-028 Wate Char 8U38-0009 PB-214 15067-28-4 0.851 pC/g 0 CZE0010-028 Wate Char 8U38-0009 PB-214 15067-28-4 0.851 pC/g 0 CZE0010-028 Wate Char 8U38-0009 PD-214 15067-28-4 0.851 pC/g 0 CZE0010-028 Wate Char 8U38-0009 PD-214 15067-28-4 0.851 pC/g 0 CZE0010-028 Wate Char 8U38-0009 PD-214 15067-28-4 0.851 pC/g 0 CZE0010-028 Wate Char 8U38-0009 PD-214 15067-28-4 0.851 pC/g 0 CZE0010-028 Wate Char 8U38-0009 PD-214 15067-28-4 0.851 pC/g 0 CZE0010-028 Wate Char 8U38-0009 PD-214 15067-28-4 0.851 pC/g 0 CZE0010-028 Wate Char 8U38-0009 PD-214 15067-28-4 0.851 pC/g 0 CZE0010-028 Wate Char 8U38-0009 PD-214 15067-28-4 0.851 pC/g 0 CZE0010-028 Wate Char 8U38-0009 PD-214 15067-28-4 0.851 pC/g 0 CZE0010-028 Wate Char 8U38-0009 PD-210 15981-52-7 0 pC/g 0 CZE0010-028 Wate Char 8U38-0009 PD-210 15981-52-7 0 pC/g 0 CZE0010-028 Wate Char 8U38-0009 PD-210 15981-52-7 0 pC/g 0 CZE0010-028 Wate Char 8U38-0009 PD-210 15981-52-7 0 pC/g 0 CZE0010-028 Wate Char 8U38-0009 PD-210 TD-231 14932-002 0 pC/g 0 CZE0010-028 Wate Char 8U38-0009 PD-210											J.		i	_ 1	0.0854
DEE0010-028.001 Soil URS10819 HPGe 02E010-028 West Char BU38-0009 Bi-214 1473-40-0 0.67 PC/9 0 0															- 1
CEEDOTI-O-028.001 Soil UR\$10819 HPGe 02E0010-028 Wate Char BU38-0009 K-40 13968-0-2 19.5 DC/g 0 0 0 0 0 0 0 0 0											 				
CEED010-028.001 Soil URS10819 HPGe 02E0010-028 Wate Char BU38-0009 PA-234 15100-26-4 0 pC/g 0											 	 			
CEED010-028.001 Soil URS10819 HPGe 02E010-026 Wate Char BU38-0009 PA-234M 15100-29-4m 0 C/C/g 0 0 02E0010-028.001 Soil URS10819 HPGe 02E0010-026 Wate Char BU38-0009 PB-212 15092-94-1 1.59 C/C/g 0 0 02E0010-028.001 Soil URS10819 HPGe 02E0010-028 Wate Char BU38-0009 PB-214 15092-94-1 0.551 C/C/g 0 0 02E0010-028.001 Soil URS10819 HPGe 02E0010-028 Wate Char BU38-0009 PD-214 15092-94-1 0.551 C/C/g 0 0 02E0010-028.001 Soil URS10819 HPGe 02E0010-028 Wate Char BU38-0009 PD-210 13981-32-7 0 C/C/g 0 0 02E0010-028 URS10819 HPGe 02E0010-028 Wate Char BU38-0009 RA-226 10031-23-9 0 C/C/g 0 0 02E0010-028.001 Soil URS10819 HPGe 02E0010-028 Wate Char BU38-0009 TD-231 14932-40-2 0 C/C/g 0 0 0 0 0 0 0 0 0															
GZE0010-028.001 Soil URS10819 HPGe 02E0010-028 Wiste Char BU38-0009 PB-212 15092-94-1 1.59 pC/g 0 0ZE0010-028.001 Soil URS10819 HPGe 02E0010-028 Wiste Char BU38-0009 PB-214 15067-28-4 0.651 pC/g 0 0ZE0010-028.001 Soil URS10819 HPGe 02E0010-028 Wiste Char BU38-0009 PO-210 13981-52-7 0 pC/g 0 0ZE0010-028.001 Soil URS10819 HPGe 02E0010-028 Wiste Char BU38-0009 RA-226 10031-23-9 0 pC/g 0 0ZE0010-028.001 Soil URS10819 HPGe 0ZE0010-026 Wiste Char BU38-0009 RA-226 10031-23-9 0 pC/g 0 0ZE0010-028.001 Soil URS10819 HPGe 0ZE0010-026 Wiste Char BU38-0009 Th-231 14932-40-2 0 pC/g 0											- 				
CZE0010-025.001 Soil URS10819 HPGe 02E0010-028 Wiste Char BU38-0009 PB-214 15067-28-4 0.851 pCHg 0 0											1				
COEE0010-028.001 Soil URS10819 HPGe 02E0010-028 Wate Char BU38-0009 PO-210 13961-32-7 0 pC/bg 0 02E0010-028.001 Soil URS10819 HPGe 02E0010-028 Wate Char BU38-0009 RA-226 10031-23-9 0 pC/bg 0 02E0010-028.001 Soil URS10819 HPGe 02E0010-026 Wate Char BU38-0009 Th-231 14932-02 0 pC/bg 0											1			0	
22E0010-028.001 Sol URS10B19 HPGe 02E0010-026 Wiste Char BU38-0009 RA-226 10031-23-9 0 pCHg 0 C2E0010-028.001 Sol URS10B19 HPGe 02E0010-026 Wiste Char BU38-0009 Th-231 14932-40-2 0 pCHg 0					02E0010-026	Wste Char BU38-0009	PO-210	13981-52-7	0	pCl/g				0	
									0	pCl/g					
												\Box			
	02E0010-026.001	Soll	URS10B19	HPGe	02E0010-026	Wate Char BU38-0009	TL-208	14913-50-9	0.484	pCV _Q	1,	<u>i</u>		0	



					Acceptance of the Control	Para Santa		1 2 2 1 1 2 2	(C-XIIX	J. Y.	dela la segui
02E0010-026.001	Soft	URS10819	HPGe	02E0010-028	Wate Char BU38-0009	Americum-241	14596-10-2	0 pC/g		and B and a probabilities of the	0
02E0010-026.001	Sol	UR\$10819	HPGe	02E0010-028	Wate Char BU38-0009	CESIUM-134	13967-70-9	0 pCVg	 		. 0:
02E0010-026.001	Sof	URS10819	HPGe	02E0010-026	Wate Char BU38-0009	THORIUM-230	14269-63-7	0 pCVg	1	T	0,
02E0010-026.001	Soll	UR\$10819	HPGe	02E0010-026	Wate Char BU38-0009	Urankım-235	15117-98-1	0.25 pCVg			0;
02E0010-026.001	Sol	URS10819	HPGe	02E0010-026	Wate Char BU38-0009	Uranium-238	7440-61-1	1.26 pCVg 5.3 UG/KG	111		· · · · · · · · · · · · · · · · · · ·
02E0010-026.002	Sol	VOA- A-011	SW-846 8260 SW-846 8260	02E0010-028	Wate Char BU38-0009 Wate Char BU38-0009	1,1,1,2-TETRACHLOROETHANE	630-20-6 71-55-6	5.3 UG/KG	U 1V1	 	
02E0010-026.002 02E0010-026.002	Sol	VOA- A-011	SW-846 8260	02E0010-026	Wate Char 8U38-0009	1,1,2,2-Tetrachloroethane	79-34-5	5.3 UG/KG	U VI	-	1.7
02E0010-026.002	Sol	VOA- A-011	SW-846 8260	02E0010-026	Wate Char BU38-0009	1,1,2-TCA	79-00-5	5.3 UG/KG	U VI		1.6
02E0010-026.002	Soll	VOA- A-011	SW-846 8260	02E0010-026	Wiste Char BU38-0009	1.1,2-TRICHLOROTRIFLUOROETHANE	76-13-1	5.3 UG/KG	U V1		1.3
02E0010-026.002	Soll	VOA- A-011	SW-846 8260	02E0010-026	Wate Char BU38-0009	1,1-DCA	75-34-3	5.3 UG/KG	U V1	1	
02E0010-026,002	Sol	VOA- A-011	SW-846 8260	02E0010-026	Wate Char 8U38-0009	1,1-OCE	75-35-4 563-58-6	5.3 UG/KG 5.3 UG/KG	U V1		0.97
02E0010-026.002	Sol	VOA- A-011	SW-846 8260 SW-846 8260	02E0010-026	Wste Char BU38-0009 Wste Char BU38-0009	1,1-DICHLOROPROPENE 1,2 DICHLOROETHANE -D4	17060-07-0	92 %REC	1	+	
02E0010-026.002	Sol	VOA- A-011	SW-846 8260	02E0010-026	Wate Char BU38-0009	1,2,3-TRICHLOROBENZENE	87-61-6	5,3 UG/KG	U VI	·	0.65
02E0010-026.002	Sol	VOA- A-011	SW-846 8260	02E0010-026	Wste Char BU38-0009	1,2,3-TRICHLOROPROPANE	96-18-4	5.3 UG/KG	U V1	1	1.6
02E0010-026.002	Sol	VOA- A-011	SW-846 8260	02E0010-026	Wate Char BU38-0009	1,2,4-Trichlorobenzene	120-82-1	5.3 UG/KG	U V1	1	0.75
02E0010-026.002	Sof	VOA- A-011	SW-846 8260	02E0010-026	Wste Char BU38-0009	1.2-DCA	107-06-2	5.3 UG/KG	U V1	· · · ·	1
02E0010-026.002	Sol	VOA- A-011	SW-848 8260	02E0010-026	Wate Char BU38-0009	1,2-DCB 1,2-Dibromo-3-chloropropane	95-50-1 96-12-8	5.3 UG/KG 5.3 UG/KG	U V1	1	
02E0010-026.002 02E0010-026.002	Sol	VOA- A-011	SW-846 8260 SW-846 8260	02E0010-026 02E0010-026	Wste Char BU38-0009 Wste Char BU38-0009	1,2-DIBROMOETHANE	106-93-4	5.3 UG/KG	10	+	0.97
02E0010-026.002	Sol	VOA- A-011	SW-846 8260	02E0010-026	Wate Char BU38-0009	1,2-Dichloropropane	78-87-5	5.3 UG/KG	U V1	·	1.7
02E0010-026.002	Sol	VOA- A-011	SW-846 8260	02E0010-026	Wste Char BU38-0009	1.3-DICHLOROBENZENE	541-73-1	5.3 UG/KG	Ü ''' ' '	· · · · · · · · · · · · · · · · · · ·	
02E0010-026.002	Sol	VOA- A-011	SW-846 8260	02E0010-026	Wste Char BU38-0009	1,3-DICHLOROPROPANE	142-28-9	5.3 UG/KG	U VI	ļ !	
02E0010-026.002	Sol	VOA- A-011	SW-846 8260	02E0010-026	Wate Char BU38-0009	1.4-DC8	106-46-7	5.3 UG/KG 5.3 UG/KG	U V1		1.5
02E0010-026.002	Sol	VOA- A-011	SW-846 8260	02E0010-026	Wate Char BU38-0009 Wate Char BU38-0009	2,2-DICHLOROPROPANE 12-Butanone	78-93-3	21 UG/KG	U V1		V.84
02E0010-026.002 02E0010-026.002	Sol	VOA- A-011	SW-846 8260 SW-846 8260	02E0010-026	Wate Char BU38-0009	2-HEXANONE	591-78-6	21 UG/KG	V1	1	4.6
02E0010-026.002	Sol	VOA- A-011	SW-846 8280	02E0010-026	Wste Char BU38-0009	4-ISOPROPYLTOLUENE	99-87-6	5.3 UG/KG	U VI	1	1,6
02E0010-026.002	Sol	VOA- A-011	SW-846 8260	02E0010-026	Wate Char BU38-0009	4-METHYL-2-PENTANONE	108-10-1	21 UG/KG	U VI		4.1
02E0010-026.002	Sol	VOA- A-011	SW-846 8260	02E0010-026	Wste Char BU38-0009	Acetone	67-64-1	21 UG/KG	U V1		4.6
02E0010-026.002	Sof	VOA- A-011	SW-846 8260	02E0010-026	Wate Char BU38-0009	Berzene	71-43-2 195-63-6	5.3 UG/KG 5.3 UG/KG	U V1		0.94
02E0010-026.002 02E0010-026.002	Sol Sol	VOA- A-011	SW-846 8260 SW-846 8260	02E0010-026	Wste Char BU38-0009 Wste Char BU38-0009	BENZENE, 1,2,4-TRIMETHYL BENZENE, 1,3,5-TRIMETHYL-	108-67-8	5.3 UG/KG	U VI	+	1.3
02E0010-026.002	Sof	VOA- A-011	SW-846 8260	02E0010-026	Wate Char BU38-0009	BROMOBENZENE	108-86-1	5.3 UG/KG	U VI	1	0.95
02E0010-026.002	Sol	VQA- A-011	SW-846 8260	02E0010-026	Wste Char BU38-0009	BROMOCHLOROMETHANE	74-97-5	5.3 UG/KG	Ŭ V1	. i	0.75
02E0010-026.002	Soil	VOA- A-011	SW-846 8260	02E0010-026	Wate Char BU38-0009	Bromodichloromethane	75-27-4	5.3 UG/KG	U V1		0.97
02E0010-026.002	Sol	VOA- A-011	SW-846 8260	02E0010-026	Wate Char BU38-0009	BROMOFLUOROBENZENE	460-00-4	83 %REC 5.3 UG/KG	<u> </u>		0.96
02E0010-026.002 02E0010-026.002	Sol	VOA- A-011	SW-846 8260 SW-846 8260	02E0010-026 02E0010-026	Wste Char BU38-0009 Wste Char BU38-0009	Bromomethage	75-25-2 74-83-9	5.3 UG/KG	U V1	į i	1.3
02E0010-026.002	Sol		SW-846 8260	02E0010-026	Wate Char BU38-0009	CARBON DISULFIDE	75-15-0	5.3 UG/KG	Ü V1		0.97
	Sof	VOA- A-011	SW-848 8260	02E0010-026	Wate Char BU38-0009	Carbon tetrachloride	56-23-5	5.3 UG/KG	U V1		1,3
02E0010-026.002	Sol	VOA- A-011	SW-846 8260	02E0010-026 *	Wste Char BU38-0009	Chlorobenzene	108-90-7	5.3 UG/KG	U V1	.ii	0.79
0260010-026.002	Soll	VOA- A-011	SW-846 8260	02E0010-026	Wste Char BU38-0009	Chloroethane	75-00-3	5.3 UG/KG	U V1	<u> </u>	1.4
02E0010-026.002	Sol	VOA- A-011	SW-846 8260	02E0010-026	Wste Char BU38-0009	Chloroform	67-66-3 174-87-3	5.3 UG/KG 5.3 UG/KG	U .V1		0.90
02E0010-026.002 02E0010-026.002	Sol	VOA- A-011 VOA- A-011	SW-846 8260 SW-846 8260	02E0010-026 02E0010-026	Wate Char BU38-0009 Wate Char BU38-0009	ds-1.2-DICHLOROETHENE	156-59-2	2.6 UG/KG	- Vi-		0.86
02E0010-026.002	Sol	VOA- A-011	SW-846 8260	02E0010-026	Wate Char BU38-0009	Cis-1,3-Dichloropropene	10061-01-5	5.3 UG/KG	Ū V1		
02E0010-026.002	Sol	VOA- A-011	SW-846 8260	02E0010-026	Wate Char BU38-0009	Dibromochloromethane	124-48-1	5.3 UG/KG	U V1		0.95
02E0010-026,002	Sol	VOA- A-011	SW-846 8260	02E0010-026	Wste Char BU38-0009	Dibromofluoromethane	1868-53-7	91 %REC			
02E0010-026.002	Sol	VOA- A-011	SW-846 8260	02E0010-026	Wate Char BU38-0009	DIBROMOMETHANE	74-95-3	. 5.3 UG/KG	U V1	· · ·	1.4
02E0010-026.002	Sof	VOA- A-011	SW-846 8260	02E0010-026 02E0010-026	Wste Char BU38-0009 Wste Char BU38-0009	DICHLORODIFLUOROMETHANE Ethylbenzene	75-71-8 100-41-4	5.3 UG/KG 5.3 UG/KG	U V1		
02E0010-026.002 02E0010-026.002	Sol Sol	VOA- A-011	SW-846 6260 SW-846 8260	02E0010-026	Wate Char BU38-0009	Hexachlorobutadiene	87-68-3	5.3 UG/KG	 		
02E0010-026.002	Sol	VOA- A-011	SW-846 8260	02E0010-028	Wate Char BU38-0009	ISOPROPYLBENZENE	98-82-8	5.3 UG/KG	U VI	1	0.89
02E0010-026.002	Sol	VOA- A-011	SW-846 8260	02E0010-028	Wate Char BU38-0009	Methylene chloride	75-09-2	2.5 UG/KG	JB JB1	249	0,84
02E0010-026.002	Sol	VOA- A-011	SW-846 8260	02E0010-026	Wate Char BU38-0009	n-BUTYLBENZENE	104-51-8	5.3 UG/KG	U V1		1.3
02E0010-026.002	Sol	VOA- A-011	SW-846 8260	02E0010-026	Wste Char BU38-0009	n-PROPYLBENZENE	103-65-1	5.3 UG/KG 5.3 UG/KG	U V1	i	0.9
02E0010-026.002	Sol	VOA- A-011	SW-846 8260 SW-846 8260	02E0010-026	Wate Char BU38-0009 Wate Char BU38-0009	Naphthalene o-CHLOROTOLUENE	91-20-3 95-49-8	5.3 UG/KG	붙다당		1.3
02E0010-026.002 02E0010-026.002	Sot Sot	VOA- A-011	SW-848 8260	02E0010-026	Wate Char BU38-0009	p-CHLOROTOLUENE	106-43-4	5.3 UG/KG	ŭ įvi	!	1,5
02E0010-026.002	Sof	VOA- A-011	SW-846 8260	02E0010-026	Wate Char BU38-0009	sec-BUTYLBENZENE	135-98-8	5.3 UG/KG	U V1		1.3
02E0010-026,002	Soll	VOA- A-011	SW-846 8260	02E0010-028	Wate Char BU38-0009	Styrene	100-42-5	5.3 UG/KG	U V1		0.69
02E0010-026.002	Sol	VOA- A-011	SW-846 8260	02E0010-026	Wste Char BU38-0009	TCE	79-01-6 98-06-6	5.3 UG/KG 5.3 UG/KG	U V1	-	0.91
02E0010-026.002 02E0010-026.002	Sol	VOA- A-011	SW-846 8260 SW-848 8260	02E0010-026 02E0010-026	Wate Char BU38-0009 Wate Char BU38-0009	tert-BUTYLBENZENE Tetrachloroethene	127-18-4	5.3 UG/KG.	U V1	- 	
02E0010-026.002	Sol	VOA- A-011	SW-848 8260	02E0010-028	Wate Char BU38-0009	Totuene	108-88-3	5.3 UG/KG	U Vi	·	0.82
02E0010-026.002	Sol	VOA- A-011	SW-846 8260	02E0010-026	Wate Char BU38-0009	TOLUENE - D8	2037-26-5	88 %REC	1		
02E0010-026.002	Sol	VOA- A-011	SW-848 8260	02E0010-028	Wate Char BU38-0009	trans-1,2-DICHLOROETHENE	158-60-5	2.8 UG/KG	U V1		0.63
02E0010-026.002	Sol	VOA- A-011	SW-846 8260	02E0010-026	Wate Char BU38-0009	Trans-1,3-Dichloropropene	10061-02-6	5.3 UG/KG	U V1		0.54
02E0010-026.002	Sol	VOA- A-011	SW-846 8260	02E0010-026	Wate Char BU38-0009	TRICHLOROFLUOROMETHANE	75-69-4	5.3 UG/KG	U V1		0.54

CREDITION Set VOLA ACT WAS 1800 CREDITION VIVE CHEMISTON VIV	CONTRACTOR OF THE PERSONS ASSESSED.
CRESTRICATES DESTRICATES Set	
SECURIO DE SIGN SIV-LADY SAFA 68 ETTRE DESCRIPTION THE CANADA THE CANAD	1.
DECEMBER Sept	2.
DESCRIPTION Sept	, 6
DECOMO Color Col	. 6
DECEMBER Section Sec	7
DECONDERS DECONDERS DESCRIPTION SECURITION DECONDERS DESCRIPTION DECON	-1 5 7
DEEDITION Sea	
DECOMPACES 003 Sel	5
DEEDITION Section Se	
DECEMBER SVG AGOT SW 444 82798 QUEDITO 2028 Web Char BU33-0009 2,4-DNT 131-142 350 UGNG U V1 V1 V2 V2 V3 V4 V4 V4 V4 V4 V4 V4	9
DEECOTO-CERG.COD Soil	10
CRESTON-CARES (COS) Sol	10
EXECUTIO-CORD. Sol	4
EXECUTIO-CAZE-0.003 Sol	
CRECOTO-CARD-003 Sol	
DECEMPINATION SM SVCA-A077 SW-448 82708 OZECO10-0278 West Care BU38-0009 Z-Nitro-milline 58-74-4 1700 U.C.W.C U. V.1	8
CRESTING CORD Sol	
CZECOTO-CZEC.COX SOL	19
CRESTITI-CASES,COD SOI	7
CRECOTO-CARE.DO.D.D.D.D.D.D.D.D.D.D.D.D.D.D.D.D.D.D	- 44
DESCRIPTION SVICA-AO7 SW-846 82708 CZECO10-028 Wets Char BU38-0009 A-Chlorosnifine 100-47-8 350 UGKG U V1 CZECO10-028.003 Sol SVO-A-007 SW-846 82708 CZECO10-028 Wets Char BU38-0009 A-Chlorospherol 100-44-5 350 UGKG U V1 CZECO10-028.003 Sol SVO-A-007 SW-846 82708 CZECO10-028 Wets Char BU38-0009 A-MITROANILINE 100-01-6 1700 UGKG U V1 CZECO10-028.003 Sol SVO-A-007 SW-846 82708 CZECO10-028 Wets Char BU38-0009 A-MITROANILINE 100-01-6 1700 UGKG U V1 V1 UGKCO10-028 Wets Char BU38-0009 A-MITROANILINE 100-01-6 1700 UGKG U V1 UV1	
DESCOTI-OZES.003 Soil SVO-A-007 SW-446 82708 OZESOTI-OZES Write Chair BU38-0009 4-CHLIDROPHENTL PHERY FT005-72-3 350 UG/KG U V1	i *
AFFECT COLOR COL	: 7
2250010-028.003 Sel	
DZE0010-028.003 Sol	6
CZECO10-028.003 Sol	3
Authorities Control	. 4
22E0010-028.003 Sol	8
225:0010-028.003 Soil SVO.A-007 SW-848 82708 025:0010-028 Wate Char BU38-0009 Benzo(b)Nuoranthene 205-09-2 350 UG/KG U V1 U2:0010-028.003 Soil SVO.A-007 SW-848 82708 025:0010-028 Wate Char BU38-0009 BENZO((n))PERYLENE 191-24-2 350 UG/KG U V1 U2:0010-028.003 Soil SVO.A-007 SW-848 82708 025:0010-028 Wate Char BU38-0009 BENZO((n))PERYLENE 191-24-2 350 UG/KG U V1 U2:0010-028.003 Soil SVO.A-007 SW-848 82708 025:0010-028 Wate Char BU38-0009 Benzol kack Soil SVO.A-007 SW-846 82708 025:0010-028 Wate Char BU38-0009 Benzol kack Soil SVO.A-007 SW-846 82708 025:0010-028 Wate Char BU38-0009 Benzol kack Soil SVO.A-007 SW-846 82708 025:0010-028 Wate Char BU38-0009 Bis(2-chloretry)(ether 101-14-4 350 UG/KG U V1 U2:0010-028 U2:0010-028 Wate Char BU38-0009 Bis(2-chloretry)(ether 111-14-1 350 UG/KG U V1 U2:0010-028 U2:0010-028 Wate Char BU38-0009 Bis(2-chloretry)(ether 111-14-1 350 UG/KG U V1 U2:0010-028 U2:0010-028 Wate Char BU38-0009 Bis(2-chloretry)(ether 111-14-1 350 UG/KG U V1 U2:0010-028 U2:0010-028 Wate Char BU38-0009 Bis(2-chloretry)(ether 301-14-1 350 UG/KG U V1 U2:0010-028 U2:0010-028 Wate Char BU38-0009 Bis(2-chloretry)(ether 301-14-1 350 UG/KG U V1 U2:0010-028 U2:0010-028 Wate Char BU38-0009 Bis(2-chloretry)(ether 301-14-1 350 UG/KG U V1 U2:0010-028 U2:0010-028 Wate Char BU38-0009 Bis(2-chloretry)(ether 301-14-1 350 UG/KG U V1 U2:0010-028 U2:0010-028 Wate Char BU38-0009 Bis(2-chloretry)(ether 301-14-1 350 UG/KG U V1 U2:0010-028 U2:0010-028 Wate Char BU38-0009 Bis(2-chloretry)(ether 301-14-1 350 UG/KG U V1 U2:0010-028 U2:0010-028 Wate Char BU38-0009 Bis(2-chloretry)(ether 301-14-1 350 UG/KG U V1 U2:0010-028 U2:0010-028 Wate Char BU38-0009 Bis(2-chloretry)(ether 301-14-1 350 UG/KG U V1 U2:0010-028 U2:0010-028 Wate Char	4
2250010-028.003 Sol	, 9
D250010-028.003 Sol	
C2E0010-028.003 Sol	9
D2E0010-028.003 Sol	(60
DECO10-028.003 Soil SVOA-007 SW-846 82708 DECO10-026 Wast Char BU39-0009 BIS[2-CHLOROETHOXY/METHANE 111-91-1 330 UG/KG U V1	
DZE0010-026.003 Sol	
02E0010-026,003 Sol SVO.A-007 SW-846 82708 02E0010-026 Wise Char BU38-0009 Bis(2-ethyffrexyf)prithalate 117-81-7 350 UG/KG U V1 02E0010-026,003 Sol SVO.A-007 SW-846 82708 02E0010-026 Wise Char BU38-0009 Buyl benzyferthalate 85-68-7 350 UG/KG U V1 02E0010-026,003 Sol SVO.A-007 SW-846 82708 02E0010-026 Wise Char BU38-0009 Chrysene 21-9-11-9 350 UG/KG U V1 02E0010-026,003 Sol SVO.A-007 SW-846 82708 02E0010-026 Wise Char BU38-0009 DH-BUTYL PHTHALATE 84-74-2 350 UG/KG U V1	1 7
02E0010-026.003 Sol SVO-A-007 SW-846 8270B 02E0010-026 Wste Cher BU38-0009 Chrysene 218-01-9 350 UG/KG U V1 02E0010-026.003 Sol SVO-A-007 SW-846 8270B 02E0010-026 Wste Cher BU38-0009 DH-n-BUTYL PHTHALATE 84-74-2 350 UG/KG U V1	7
02E0010-026.003 Sol SVO-A-007 SW-846 8270B 02E0010-028 Wisto Char BU38-0009 DH-BUTYL PHTHALATE 84-74-2 350 UG/KG U V1	3
	ļ Š
International in	- 8
0250010-026.003 Soil SVO-A-007 SW-846 82708 0250010-026 Wats Char 8U38-0009 Dibenz(a-h)anthracere 53-70-3 350 UG/KG U V1	
@250010-026.003 Soil SVG-A-007 SW-846 82708 (2250010-028 Wate Char BU38-0009 (Disenzofuran 1132-84-9 336 (UGMG (U V1	
02E0010-026.003 Soil SVO-A-007 SW-846 82708 02E0010-026 Wate Char BU38-0009 Diethyl phthalate 84-86-2 690 UG/KG U V1	5.
0250010-028.003 Soil SVO-A-007 SW-846 82708 0250010-028 Wister Chart BU38-0009 Dimethly prichalate 131-11-3 350 UG/KG U V1	5
C2E0010-026,003 Sol	8
02E0010-028.003 Soil SVC-A-07 SW-946 82708 U2E0010-028 Was Class 80.9-0009 Hexachborberuzene 116-74-1 350 UG/MG U V1	
00000010-0000 Svi Sv	100
02E0010-026.000 Sol SVO-A-007 SW-846 8270B 02E0010-026 Wiste Char BU38-0009 Hexachtorocyclopentadlene 77-47-4 690 UG/KG U V1	3.
0250010-026-000 Sol SVC-A-007 SW-846-82708 0250010-028 Wate Char BUIS-0009 Hexachborechare 07-72-1 350 (UGRIG U V1	5.
02E0010-026.003 Sol SVO-A-007 SW-946 82708 02E0010-026 Wisto Char BU38-0009 Indenx(1,2,3-od)pyrene 193-39-5 350 UG/KG U V1 02E0010-026.003 Sol SVO-A-007 SW-946 82708 02E0010-026 Wisto Char BU38-0009 Isophorone 778-59-1 350 UG/KG U V1	
UZEO0104028.003 SVD-A-07 SW-948 62708 UZEO010-028 WSS CHIS DUSPHOND SUPERIOR UZEO010-028 WSS CHIS DUSPHOND INVIRSOID-1-propylamine 621-64-7 350 UG/KG U V1	
02E0010-026.003 Sol SVO-A-007 SW-946 82708 02E0010-026 Wate Char BU38-0009 n-Nitrosodiphenylamine 88-30-6 350 UG/KG U V1	7
02E0010-026.003 Soft SVO-A-007 SW-846 8270B 02E0010-026 Wiste Char BU38-0009 Naphthalane 91-20-3 350 UG/KG U V1	7
0250010-025.003 Soil SVC-A-007 SW-846 82706 0250010-026 Wate Char BU38-0009 Nitroberzane 98-95-3 350 UCRG U V1	
02E0010-026.003 Sol	
0220010426.003 Soil SVOA-007 SW-846 82708 0220010426 West Char BUSS-0009 0-BROMODPHENVLETHER 101-55-3 350 UG/KG U V1	7,
QZE0010-QZ6.003 Sol SVG-A-007 SW-846 82708 QZE0010-QZ6 Wate Char BU38-0009 Pentachtorophenol 57-88-5 1700 UG/kG U V1	390
02E0010-028.003 Sol SVO-A-007 SW-846 82708 02E0010-026 Wate Char BU38-0009 PHENANTHRENE 85-01-8 350 UG/KG U V1	31
02E0010-026.003 Sol SVO-A-007 SW-846 82708 02E0010-026 Wate Char BU38-0009 Phenol 108-85-2 350 UG/KG U V1	7.



	i dia				and the same	Anova .	- identa		U845	Z410 (**12)	of Alberta		17.7%
02E0010-028.003	Soil	SVO-A-007	SW-848 62708		Wate Char 8U38-0009	ليوندي محبيسان بيسينا للبالليا للشاهلية السيناء واستنباء والأرا			into le		<u> </u>	21	1.2.3
02E0010-026.003	Sol	SVO-A-007	SW-848 8270B	02E0010-026	Wate Char BU38-0009	PHENOL-D5 Pyrene	4165-62-2 129-00-0	55 %F		1 V1			
02E0010-026.003	Sol	SVO-A-007	SW-846 8270B	02E0010-026	Wate Char BU38-0009	TERPHENYL-D14	1718-51-0	83 %F					44
02E0010-027.001	Water Quality Control Matrix	VQA-A-009	SW-848 8260	02E0010-027	Trip Blank	ACETIC ACID, 2-ETHYLHEXYL ESTE	103-09-3	32 UG		V1		-	
02E0010-027,001	Water Quality Control Matrix	VOA-A-009	SW-848 6260	02E0010-027	Trip Blank	ISOBUTANE	75-28-5	20 UG		 V1			1
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 6260	02E0010-027	Trip Blank	UNKNOWN	TIC	1.5 UG		VI		7	
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 6260	02E0010-027	Trip Blank	1,1,1,2-TETRACHLOROETHANE	630-20-6	1 UG		VI		1	0.28
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0010-027	Trip Blank	1,1,1-TCA ·	71-55-6	1 UG		V1			0.32
02E0010-027.001 02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0010-027	Trip Blank	1,1,2,2-Tetrachloroethane	79-34-5	1 UG		V1			0.5
02E0010-027.001	Water Quality Control Matrix Water Quality Control Matrix	VOA-A-009	SW-846 8260 SW-846 8260	02E0010-027 02E0010-027	Trip Blank Trip Blank	1,1,2-TCA	79-00-5	1 UG				<u> </u>	0.41
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-848 8280	02E0010-027	Trip Blank	1,1,2-TRICHLOROTRIFLUOROETHANE 1,1-DCA	76-13-1 75-34-3	1 UG		V1		_	0.56
02E0010-027,001	Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0010-027	Trip Blank	1,1-DCE	75-34-3	1 UG		V1			0.29
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0010-027	Trip Blank	1,1-DICHLOROPROPENE	563-58-6	1 UG		V1			0.31
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0010-027	Trip Blank	1.2 DICHLOROETHANE -D4	17080-07-0	97 %R					0.23
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0010-027	Trip Blank	1,2,3-TRICHLOROBENZENE	87-61-6	1 UG		V1		- !	0.62
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0010-027	Trip Blank	1,2,3-TRICHLOROPROPANE	96-18-4	1 UG		V1			0.76
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0010-027	Trip Blank	1,2,4-Trichlorobenzene	120-82-1	1 UG		V1		+	0.63
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0010-027	Trip Blank	1,2-DCA	107-08-2	1 UG	LU	V1		-1	0.43
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-848 8260	02E0010-027	Trip Blank	1,2-DCB	95-50-1	1 UG	L U	V1		7 1-	0.3
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 8260		Trip Blank	1,2-Dibromo-3-chloropropane	96-12-8	2 UG		V1			0.49
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 8260		Trip Blank	1,2-DIBROMOETHANE	108-93-4	1 UG.		V1		I.	0.46
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 6260		Trip Blank	1,2-Dichloropropane	78-87-5	1 UG		V1	_i		0.38
02E0010-027.001 02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 8260		Trip Blank	1,3-DICHLOROBENZENE	541-73-1	1 UG		VI	1	-1 - 1	0.3
02E0010-027.001	Water Quality Control Matrix Water Quality Control Matrix	VOA-A-009	SW-846 8260 SW-846 8260		Trip Blank	1,3-DICHLOROPROPANE	142-28-9	1 UG		V1		<u> </u>	0.37
02E0010-027.001	Water Quality Control Matrix	VQA-A-009	SW-846 6260	02E0010-027 02E0010-027	Trip Blank	1,4-DCB 2,2-DICHLOROPROPANE	106-46-7	1 UG		V1			0.31
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 8260		Trip Blank Trip Blank	2-Butanone	594-20-7 78-93-3	5 UG		V1-		1 1	0.37
02E0010-027,001	Water Quality Control Matrix	VOA-A-009	SW-846 8260		Trip Blank	2-HEXANONE	591-78-6	5 UG		V1		4	2.4
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-848 8260		Trip Blank	4-ISOPROPYLTOLUENE	99-87-6	1 00		- V1			0.32
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-848 8260		Trip Blank	4-METHYL-2-PENTANONE	108-10-1	5 UG		V1			1.0
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 8280	02E0010-027	Trio Blank	Acetone	67-64-1	3.2 UG		- vi	- -		2.9
02E0010-027.001	Water Quality Control Matrix	VQA-A-009	SW-846 8280		Trip Blank	Benzene	71-43-2	1 UG					0.27
Q2E0010-Q27.001	Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0010-027	Trip Blank	BENZENE, 1,2,4-TRIMETHYL	95-63-6	1 UG		1 V1	 -		0.3
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0010-027	Trip Blank	BENZENE, 1,3,5-TRIMETHYL-	108-67-8	1 UG		i V1		· · · · · · · · · · · · · · · · · · ·	0.31
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0010-027	Trip Blank	BROMOBENZENE	108-88-1	1 UG		VI		1 1	0.32
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-646 8260		Trip Blank	BROMOCHLOROMETHANE	74-97-5	1 UG/	Ū	V1		1 1	0.39
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-848 8260		Trip Blank	Bromodichioromethane	75-27-4	1 UG/		V1		1	0.35
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0010-027	Trip Blank	BROMOFLUOROBENZENE	460-00-4	94 %R		_ 1.1	1	1	- 1
02E0010-027,001 02E0010-027,001	Water Quality Control Matrix	VOA-A-009	SW-848 8260		Trip Blank	Bromoform	75-25-2	1 UG/		_ [VI		.1	0.46
02E0010-027.001	Water Quality Control Matrix Water Quality Control Matrix	VOA-A-009	SW-846 8260 SW-846 8260		Trip Blank Trip Blank	Bromomethane	74-83-9	2 UG/		V1			0.28
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 8260		Inp Bank Trip Blank	CARBON DISULFIDE	75-15-0	1 UG/		V1		-i	0.67
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0010-027	Trip Blank	Carbon tetrachloride Chlorobenzene	58-23-5 108-90-7	1 UG/		V1		4 :	0.35
02E0010-027.001	Water Quality Control Matrix	VQA-A-009	SW-846 8260		Trip Blank		75-00-3	1 UG/ 2 UG/		V1	- 	4	0.24
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 8260		Trip Blank	Chloroform	67-66-3	1 UG/		- V1	-}	++-	0.29
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 6260		Trip Blank	Chloromethane	74-87-3	2 UG/		V1	- 		0.26
02E0010-027.001	Water Quality Control Matrix	VQA-A-009	SW-846 8260		Trip Stank	ds-1,2-DICHLOROETHENE	156-59-2	1 UG/		vi		· · ·	0.33
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-848 8260		Trip Blank	Cls-1,3-Dichloropropene	10061-01-5	11UG/		V1	 	·	- 0.33
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-848 8260	02E0010-027	Trip Blank	Dibromochloromethane	124-48-1	1 UG/		V1	·	1	0.37
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 8260		Trip Blank	Dibromofluoromethane	1868-53-7	104 %RI	C !	1	1	f:	- ~:(
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 8260			DIBROMOMETHANE	74-95-3	1 UG/	. u	V1	i		0.4
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 8260		rip Blank	DICHLORODIFLUOROMETHANE	75-71-8	2 UG/	U	VI		1	0.44
02E0010-027.001	Water Quality Control Matrix		SW-646 8260			Ethylbenzene	100-41-4	1 UG/		V1			0.51
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 8260		Into Blank	Hexachlorobutadiene	87-68-3	1 UG/		V1	.]		0.37
02E0010-027.001 02E0010-027,001	Water Quality Control Matrix Water Quality Control Matrix	VOA-A-009	SW-846 8260		rip Blank	ISOPROPYLBENZENE	98-82-8	1 UG/		V1			0.3
02E0010-027,001	Water Quality Control Matrix Water Quality Control Matrix	VOA-A-009	SW-848 8260 SW-846 8260		Irip Blank	Methylene chloride	75-09-2	1 UG/		V1		<u></u>	0.86
02E0010-027.001	Water Quality Control Matrix	VQA-A-009			rip Blank	n-BUTYLBENZENE n-PROPYLBENZENE	104-51-8	1 UG/			-ļ	1 ! .	0.41
02E0010-027.001	Water Quality Control Matrix	VQA-A-009	SW-848 8260		Inp Blank Inp Blank		103-65-1 91-20-3	1 UG/		- 1	i		0.33
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 8260		Trip Blank		95-49-8	1 UG/		 V1	- 		0.23
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-848 8260		rip Blank		106-43-4	1 UG/		V1	+	+	0.23
02E0010-027,001	Water Quality Control Matrix	VOA-A-009	SW-848 8260		rip Blank	SEO-BUTYLBENZENE	135-98-8	1 UG/		 V1	†		0.34
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-646 8260		Irip Blank	Styrene	100-42-5	1 UG/		101	1	1 .	0.28
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 8260				79-01-6	1 UG/		V1	1	·	0.24
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-848 8260				98-06-6	1 UG/	U	V١	T.	1-1-	0.29
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 8260		rip Blank		127-18-4	1 UG/	U	V1		1	0.27
02E0010-027.001	Water Quality Control Matrix	VOA-A-009			inp Blank	Toluene	108-88-3	1 UG/	U	VI			0.26
02E0010-027.001	Water Quality Control Matrix	VOA-A-009					2037-26-5	95 %RE			************]
02E0010-027.001 02E0010-027.001	Water Quality Control Matrix	VOA-A-009				trans-1,2-DICHLOROETHENE	156-60-5	0.5 UG/		V1		4 1.	0.25
UZEUU10-UZ7.UU1	Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0010-027]1	rip Blank	Trans-1,3-Dichloropropene	10061-02-6	1 UG/	<u>!U</u>	VI		1 1	0.36



	a provincia de la material de apparente de la constantina del constantina de la constantina del constantina de la constantina de la constantina de la consta	ai karamatan da ma	I WALL TO SERVICE AND ADDRESS OF THE PARTY O	and deliberation			Ton compared a	Trace Company Section 15	ier einer myzern	,		765
Seleption.	4.0	173			ALL STREET, ST	TO MUNICIPAL TO A STATE OF THE	CAS NO	RESOURCE EURITS	远远 远远	المستنفذ ال	شأ أتكف	30
02E0010-027.001	Water Quality Control Matrix		SW-848 6260		Trip Blank	TRICHLOROFLUOROMETHANE	175-69-4	2 UG/L	U V1			0.43
02E0010-027.001	Water Quality Control Matrix	VOA-A-009	SW-846 6260	02E0010-027	Trip Blank Trip Blank	Vinyl chloride Xylenes (total)	75-01-4 1330-20-7	1 UG/L 2 UG/L	U 1V1			0.26
02E0010-027.001 02E0022-001.002	Water Quality Control Matrix Soil	VOA-A-009 URS10B19	SW-846 8260 HPGe	02E0010-027	N. Stockpile 1	AC-228	7440-34-8	1.22 pCVg	- · · -	•	0:	****
02E0022-001.002	Sol	UR\$10819	HPGe		N. Stockpile 1	B-212	14913-49-6	1.41 pCVg	1		0	
02E0022-001.002	Sol	URS10B19	HPGe	02E0022-001	N. Stockpile 1	BF214	:14733-03-0	0.548 pC/g	T		0	
02E0022-001.002	Sol	URS10819	HPGe	02E0022-001	N. Stockpile 1	K-40	13986-0-2	18.6 pCVg	1 :		0	
02E0022-001.002	Sol	URS10819	HPGe	02E0022-001	N. Stockpile 1	PA-234 PA-234M	15100-28-4 15100-28-4m	0 pC//g	 	;	o:	.
02E0022-001.002	Sol	URS10B19 URS10B19	HPGe HPGe	02E0022-001 02E0022-001	N. Stockpile 1 N. Stockpile 1	PR-234M PB-212	15100-26-4m	0 pCVg 0.978 pCVg				~
02E0022-001.002 02E0022-001.002	Sol	URS10819	HPGe	02E0022-001	N. Stockolle 1	PB-214	15067-28-4	0.609 pC/g			Ö.	
02E0022-001.002	Sol	UR\$10819	IHPGe		N. Stockpile 1	PO-210	13981-52-7	2960 pCVg			0	
02E0022-001.002	Sol	URS10B19	HPGe	02E0022-001	N. Stockpile 1	RA-226	10031-23-9	1.91 pCVg			0,	
02E0022-001.002	Soil	URS10B19	HPGe		N. Stockpile 1	Th-231	14932-40-2	0 pCVg	I		. <u>Oi</u>	
02E0022-001.002 02E0022-001.002	Sol	URS10819 URS10819	HPGe HPGe	02E0022-001 02E0022-001	N. Stockpile 1 N. Stockpile 1	TL-208 Americium-241	14913-50-9 14596-10-2	0.35 pCVg 0 pCVg		:	0;	1
02E0022-001.002	Sol	URS10819	IHPGe		N. Stockpile 1	CESIUM-134	13967-70-9	0 pCVg		:	ō.	
02E0022-001.002	Sol	URS10819	HPGe	02E0022-001	N. Stockpile 1	THORIUM-230	14269-63-7	0 pCVg	1		0	
02E0022-001.002	Sol	UR\$10819	HPGe		N. Stockpile 1	Uranium-235	15117-96-1	0 pCVg			0, _	
02E0022-001.002	Sol	URS10B19	HPGe	02E0022-001	N. Stockpile 1	Uranium-238	7440-61-1	1.22 pCVg			0	
02E0022-002.002	Sol	UR\$10B19	HPGe IHPGe		M. Stockpile 2 M. Stockpile 2	AC-228 BI-212	7440-34-8 14913-49-8	0.885 pCVg 1.19 pCVg				
02E0022-002.002 02E0022-002.002	Sol	URS10B19	IHPGe		M. Stockpile 2	8F212 8F214	14733-03-0	0.403 pCVg	·		8.	- 1
02E0022-002.002	Sol	URS10819	HPGe	02E0022-002	M. Stockpile 2	K-40	13966-0-2	21.5 pCVg	1 1		o.	ļ
02E0022-002.002	Soll	URS10819	HPGe		M. Stockpile 2	PA-234	15100-28-4	0 pCVg			0	
02E0022-002.002	Soll	UR\$10B19	HPGe	02E0022-002	M. Stockpile 2	PA-234M	15100-28-4m	OlpCVg			. 0.	· .
02E0022-002.002	Sol	URS10B19	HPGe		M. Stockpile 2	PB-212	15092-94-1	0.799 pCVg			0	1
02E 0022-002.002	Sol	URS10819 URS10819	HPGe HPGe		M. Stockpile 2 M. Stockpile 2	PB-214 PO-210	13981-52-7	0.465 pCVg	-		ŏ.	
02E0022-002.002 02E0022-002.002	Soil Soil	UR\$10B19	IHPGe		M. Stockpile 2	RA-226	10031-23-9	0 pC/g	 			*****
02E0022-002.002	Sol	UR\$10B19	HPGe	02E0022-002	M. Stockpile 2	Th-231	14932-40-2	0 pCVg	1		0	- "
02E0022-002.002	Sol	URS10819	HPGe	02E0022-002	M. Stockpile 2	TL-208	14913-50-9	0.221 pCVg	1	!	0	ı
02E0022-002.002	Soll	UR\$10B19	HPGe	02E0022-002	M. Stockpile 2	Americium-241	14596-10-2	0 pCVg				
02E0022-002.002	Sol	URS10819	HPGe HPGe	02E0022-002 02E0022-002	M. Stockpile 2 M. Stockpile 2	CESIUM-134 THORIUM-230	13967-70-9 14269-63-7	0 pCVg	-			
02E0022-002.002 02E0022-002.002	Soil	URS10819 URS10819	HPGe	02E0022-002	M. Stockpile 2	Uranium-235	15117-96-1	0.108 pCVg			ŏ.	
02E0022-002.002	Sol	URS10819	HPGe		M. Stockpile 2	Uranium-238	7440-81-1	0 pCVg	ii		ő;-	
02E0022-003.002	Sol ·	UR\$10819	HPGe	02E0022-003	S. Stockpile 3	AC-228	7440-34-8	1.42 pCVg			0	
02E0022-003.002	Soll	URS10B19	HPGe	02E0022-003	S. Stockpile 3	BI-212	14913-49-6	. 1.75 pCVg			0	
02E0022-003.002	Soll	URS10B19 URS10B19	HPGe HPGe		S. Stockpile 3 S. Stockpile 3	BF214 K-40	14733-03-0 13966-0-2	0.649 pCVg 15.8 pCVg	 		. 01	-
02E0022-003.002 02E0022-003.002	Sof	URS10819	HPGe		S. Stockpile 3	PA-234	15100-28-4	0 pCVg	 			
02E0022-003.002	Sol	UR\$10B19	HPGe	02E0022-003 *	S. Stockpile 3	PA-234M	15100-28-4m	0 pCVg			o ·	- 1
02E0022-003.002	Sol	URS10819	HPGe :	02E0022-003	S. Stockpile 3	PB-212	15092-94-1	1.35 pCVg			0,	- 1
02E0022-003.002	Sol	UR\$10819	HPGe		S. Stockpile 3	PB-214	15087-28-4	0.809 pCi/g	<u> </u>	l — ——————————————————————————————————	0:	
02E0022-003.002	Soil	URS10B19	HPGe		S. Stockpile 3	PO-210 RA-226	13981-52-7	0 pCVg 0 pCVg	·		8	
02E0022-003.002 02E0022-003.002	Sol	URS10B19 URS10B19	HPGe HPGe	02E0022-003 02E0022-003	S. Stockpile 3 S. Stockpile 3	Th-231	14932-40-2	0 pCVg		-	o.	1
02E0022-003.002	Sol	URS10819	HPGe		S. Stockpile 3	TL-208	14913-50-9	0.487 pCVg	 		Ö	
02E0022-003.002	Soil	URS10B19	HPGe	02E0022-003	S. Stockpile 3	Americium-241	14598-10-2	0 pCi/g			. 0	
02E0022-003.002	Sol	URS10B19	HPGe		S. Stockpile 3	CESIUM-134	13987-70-9	0 pCVg	. I		. 0_	
02E0022-003.002	Sol	URS10B19	HPGe		S. Stockpile 3	THORIUM-230	14269-63-7	0 pCVg	 		0	
02E0022-003.002 02E0022-003.002	Soil	URS10B19 URS10B19	HPGe HPGe	02E0022-003 02E0022-003	S. Stockpile 3 S. Stockpile 3	Uranium-235 Uranium-238	7440-81-1	0.148 pCVg 2.14 pCVg	 	 		
02E0022-004.002	Sol	URS10819	HPGe	02E0022-004	S. Stockpile Dupe	AC-228	7440-34-8	1.31 pCVg	1		0	
02E0022-004.002	Sol	URS10819	HPGe		S. Stockpile Dupe	BF212	14913-49-6	1.96 pCVg			0	
02E0022-004.002	Sol	URS10B19	HPGe	02E0022-004	S. Stockpile Dupe	BF214	14733-03-0	0.527 pCVg			0	
02E0022-004.002	Sol	UR\$10B19	HPGe		S. Stockpile Dupe	K-40	13966-0-2	14.3 pCVg	ļ	<u> </u>		- 1
02E0022-004.002	Sol	URS10819	HPGe HPGe		S. Stockpile Dupe	PA-234 PA-234M	15100-28-4 15100-28-4m	0 pCVg	 		0	- 1
02E0022-004.002 02E0022-004.002	Soll	URS10B19	HPGe HPGe		S. Stockpile Dupe S. Stockpile Dupe	PB-212	15092-94-1	1.38 pCVg	1			
02E0022-004.002	Sol	UR\$10819	HPGe		S. Stockpile Dupe	PB-214	15087-28-4	0.606 pCl/g			0	
02E0022-004.002	Sol	UR\$10B19	HPGe	02E0022-004	S. Stockpile Dupe	PO-210	13961-52-7	0 pCi/g			0	
02E0022-004.002	Sol	URS10B19	HPGe	02E0022-004	S. Stockpile Dupe	RA-226	10031-23-9	2.74 pCVg			0	
02E0022-004,002	Sol	URS10B19	HPGe		S. Stockpile Dupe	Th-231 TL-208	14932-40-2	0 pCVg 0.43 pCVg	 		0	
02E0022-004.002	Sol	URS10B19	HPGe HPGe		S. Stockpile Dupe S. Stockpile Dupe	Americium-241	14596-10-2	0,43 pC/g	 	 	01	
02E0022-004.002 02E0022-004.002	Sol	URS10819	HPGe		S. Stockpile Dupe	CESIUM-134	13967-70-9	0 pCl/g	1		ō	
02E0022-004.002	Sol	URS10819	HPGe		S. Stockpile Dupe	THORIUM-230	14269-63-7	0 pCl/g			Ö	
02E0022-004.002	Sol	UR\$10B19	HPGe	02E0022-004	S. Stockpile Dupe	Urankun-235	15117-96-1	0 pCl/g			0]
02E0022-004.002	Soil	URS10B19	HPGe	02E0022-004	S. Stockpile Dupe	Uranium-238	7440-61-1	2.64 pCl/g		L	0:	
												_

nalytical Dats
UBC 123

Company										·		
						AA-226	B039-0005	0250035-007	4PGe	918018AU		ZE 0022-007.002
												
	···-											
	1 16		· ·									
Color												200,700-5500,35
Company	0		1								Bos.	200,700-550035
Company				S DCN ⁸	9085-84-1	bB-515	BU38-0002	02E0022-007				S00.700-SS003S
0	0											500,500-550035
Color		<u>i</u>										
Column	0		1									
Company Comp			1									
Company Comp	;º											
Company Comp	· · · · · · · · · · · · · · · · · · ·	i										S00.700-SS003S
0	, · ·		·-i	DCM0	ZC.O O-CO-CCTA							200,700-220032
Company Comp	'o i	!	1				BU38-0002	700-S200320	HPG6	61801290	NOS.	200.700-220035
												200.700-550035
1	10				1 8-16-011	VC-SS8						200.700-550035
0	8 0											
Description Process	9											
0												
1						110MOM-235						
Section Sect												
Color	J											200,800-520035
Company Comp						CERIOW-134						SE0033-006.002
Company Comp	i i											200,800-220032
Sept	,			0 bcs0					HPG6	918012RU	POS	ZE0023-009.002
0	10		1			TL-208	W. of Marhold-2	05E0055-008				200.800-550035
Part												200,800-520032
0	0											
0												
0												
1												
Company Comp	 											
Second Price												
0			 									200.800-2200.922
0	ō											200 900-2200 32
10				7 pCMg	0.1 1-46-26081	PB-212	S-blorinsM to .W	02E0022-008	HPGe			ZE0023-006.002
0 0,000 0 0,000 0 0,000	0											200,800-5500350
Page												
0												
	<u></u>											
0		·										
Second Color Seco												
Part	+ 											Z00'900-ZZ003Z
0	10											ZE0022-006.002
Comparation	 		1									200.800-2200320
Compared by Comp	1			7 pcvg	6.1 8-46-0447		Y. of Manhold-2				IOS	2E0022-006.002
0				7 pcvg	C.1 8-4C-0347							ZE0022-008.002
0				0 pCNp	1-19-099/							100,800-5200350
Control Cont				7 pCVg	CS.0 1-86-11181							100:000-2200321
0 0,000,000,000 0,000,000,000 0,000,00												
Control Cont												
0												100.800-5500350
0 0,000		 										100'900-ZZ003Z
CONTROL Sci				0 bcs/g								100,800-5500350
0 0,000,000,000 0,000,000,000,000,	}			0 bcn8	13981-52-7		Southeast Stab	02E0022-009	HPGe			100.800-5200350
Control Set	0	[15067-28-4 0.64	bB-514						100,800-5200350
CONSTRUCTOR												100,800-520035
COCCOCCO COLD COLD COCCOCCO COCCOCCO COCCOCCO COCCCCO COCCCCC COCCCCCC COCCCCCC COCCCCCCC COCCCCCCC COCCCCCCCC			1									100,800-520035
0 0 0 0 0 0 0 0 0 0												
0 0,000 0,												
C0225-005,001 Soil URS/10819 HPGe (07E0022-005 Southeast Sub AC-228 A440-34-6 1.27) pC/49												
			+									
			-	21001100212	A TOTAL STREET	VC-558	And the second s					
Emblement Limits of Burnary Cliffs of the Control o	200 1 1 2 2 3						4					
	Carrie annual sample and face men		ståra til		سنخط أجده بالشديد أنسب وينشعب عاوان	i kai maan marii kuu maan maadada in maanadada in turus (n. 1991)	المتريك مرحظ فالمربوف بكسام بالمراج فيتراج بالمتراج والمتراج فالمطا	and the second	Marian Maria (VIII) is a second second	and the second of		·





Common C	
CRESTIZATION CRESTIVATION CRES	0 4
CEFEGIZ-607.002 Soil	0 4
CEFE0022-007 002 Sel	0 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
CEEOGZ-007.002 Sol	0 1 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
CEFORZZ-007 DOZ Sol	0 1 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
CESUM-134 13987-70-9 0 C-16 CESUM-134 13987-70-9 0 C-16 CESUM-134 13987-70-9 0 C-16 CESUM-134 CESUZ-007 CESUZ-008 CESU	0 1 8 8 8 8
CERCIDIZ-007.002 Sel	0 1 8 8 8 8
CED0022-007-002 Sel	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
DEB0022-007.002 Sol	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
DEB0022-007-002 Sel	0 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
CREDICIZ-007.002 Sol	0 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
DEB0022-007-002 Sel	0 0
CREDIZ2-008.002 Soil URS10819 HPGe OZE0022-008 Central pt. On S. PWL AC-228 7440-34-6 1.25 PC/9	0 0
CEEO022-006.002 Soil URS10819 HPGe OZE0022-008 Central pt. On S. PWL AC-228 7440-34-8 1.25 pC/g	0 0
DECO022-006.002 Soil URS10819 HPGe OZE0022-008 Central pt. On S. PWL Bi-212 14913-49-6 0.887 PC/g	91
CECOUZ2-006.002 Soil URS10819 HPGe OZE00Z2-008 Central pt. On S. PWL BI-212 14913-49-6 0.887 C/Cg	91
CECOUZ-006.002 Sei	0
CZE0022-006.002 Sol URS10819 HPGe CZE0022-008 Central pt. On S. PWL K.40 13966-0-2 20 pC/g	0
CECOUZ2-006.002 Soil URS10819 HPGe OZEO0Z2-008 Central pl. On S. PWL K-40 13966-0-2 20 pC/g	0
02E0022-006.002 Sel URS10819 HPGe 02E0022-008 Central pl. On S. PWL PA-234 15100-26-4 0] pC/lg 02E0022-006.002 Sel URS10819 HPGe 02E0022-008 Central pl. On S. PWL PA-234 15100-26-4 0] pC/lg 02E0022-006.002 Sel URS10819 HPGe 02E0022-008 Central pl. On S. PWL PA-234M 15100-26-4m 0] pC/lg 02E0022-006.002 Sel URS10819 HPGe 02E0022-008 Central pl. On S. PWL PA-234M 15100-26-4m 0] pC/lg 02E0022-006.002 Sel URS10819 HPGe 02E0022-008 Central pl. On S. PWL PA-234M 15100-26-4m 0] pC/lg 02E0022-006.002 Sel URS10819 HPGe 02E0022-008 Central pl. On S. PWL PB-212 15092-94-1 1.13] pC/lg	0
CZE0022-006.002 Sol	0.
02E0022-006.002 Soil URS10B19 HPGe 02E0022-006 Central pt. On S. PWL PA-224M 15100-264m 0; pC/bg 02E0022-006.002 Soil URS10B19 HPGe 02E0022-008 Central pt. On S. PWL PA-224M 15100-284m 0; pC/bg 02E0022-006.002 Soil URS10B19 HPGe 02E0022-008 Central pt. On S. PWL PB-212 1500-284m 1,13] pC/bg	
02E0022-006.002 Soil URS10B19 HPGe 02E0022-008 Central pt. On S. PWL PA-234M 15100-28-4m 0 pC/g 02E0022-006.002 Soil URS10B19 HPGe 02E0022-008 Central pt. On S. PWL PB-212 15092-94-1 1.13 pC/g 0	• • • • • • • • • • • • • • • • • • •
02E0022-006.002 Sol URS10819 HPGe 02E0022-008 Central pt. On S. PWL PB-212 15092-94-1 1.13 pC/20	1 0
	1
	0
02E0022-008-002 Sol URS10819 HPGe 02E0022-008 Central pt. On S. PWL PB-214 15097-28-4 0.568 pC/lg	i namena and a spania de la
02E0022-008-002 Sol URS10819 HPGe 02E0022-008 Central pt. On S. PWL PB-214 15067-25-4 0.588 pCHg	<u> </u>
02E0022-008.002 Soil URS10B19 HPGe 02E0022-008 Central pt. On S. PWL PO-210 13981-Sz-7 0 PC/9	1 1 1
02E0022-006:002 Sol URS10819 HPGe 02E0022-008 Central pt. On S. PWL PO-210 13981-52-7 0 pC/lg 02E0022-008:002 Sol URS10819 HPGe 02E0022-008 Central pt. On S. PWL RA-226 10031-23-9 3.58 pC/lg	ļ
COLUMN TO THE PARTY OF THE PART	<u></u>
02E0022-008.002 Soil URS10819 HPGe 02E0022-008 Central pt. On S. PWL IRA-226 10031-23-9 3.58 pC/g 02E0022-008.002 Soil URS10819 HPGe 02E0022-008 Central pt. On S. PWL Th-231 14932-40-2 0 pC/g	
02E0022-008-002 Soil URS:0819 HPGe 02E0022-008 Central pt. On S. PWL Th-231 11932-40-2 0, pCtg	. 0
02E0022-006.002 Sol URS10819 HPGe 02E0022-006 Central pt. On S. PWL TL-208 14913-50-9 0.412 pC/9	
02E0022-006.002 Sol URS10819 HPGe 02E0022-008 Central pt. On S. PWL TL-208 14913-50-9 0.412 pC/lg	0
02E0022-008.002 Sol URS10819 HPGe 02E0022-008 Central pt. On S. PWL Americium-241 14596-10-2 0 pC/9	1 . i . •
02E0022-008-002 Soil URS10B19 HPGe 02E0022-008 Central pt. On S. PWL Americkum-241 14596-10-2 0; CC/g	0 4
02E0022-008-002 Soil URS10819 HPGe 02E0022-008 Central pt. On S. PWL CESIUM-134 13967-70-9 0 pC/g	·
	
	t
02E0022-008.002 Soil URS10819 HPGe 02E0022-008 Central pt. On S. PWL THORIUM-230 14269-83-7 0 (pCl/g) 02E0022-008.002 Soil URS10819 HPGe 02E0022-008 Central pt. On S. PWL Uranium-235 15117-96-1 0 (pCl/g)	i
02E0022-006.002 Soil URS10819 HPGe 02E0022-008 Central pt. On S. PWL Urankur-235 15117-96-1 0 pClg	0. 1
02E0022-008-002 Sol URS10819 HPGe 02E0022-008 Central pt. On S. PWL Urankum-238 7440-61-1 1.55 pClg	
07F0072.008.002 Sel URS10819 HPGe 02E0022.008 Central ot. On S. PWL Urankum-238 7440-61-1 1.55 pC//9	0 8
02E0022-009-002 Soil URS10819 HPGe 02E0022-009 MH1-MH2 Stoile E. AC-228 7440-34-9 1.14 pC/g	L
02E0022-009.002 Soil URS10819 MPGe 02E0022-009 MH1-MH2 Stitplie E. AC-228 7440-34-8 1.14 pC/g	. 0
02E0022-009.002 Soil URS10819 HPGe 02E0022-009 MH1-MH2 Stiple E. BI-212 14913-49-6 1.14 pC/g	ļ., , <u>ļ</u>
02E0022-009.002 Sol URS10819 HPGe 02E0022-009 MH1-MH2 Stiple E. Bi-212 14913-49-6 1.14 CC9	···
02E0022-009-002 Sol URS10819 HPGe 02E0022-009 MH1-MH2 Stople E. BI-214 14733-03-0 0.405 pC/g 02E0022-009-002 Sol URS10819 HPGe 02E0022-009 MH1-MH2 Stople E. BI-214 14733-03-0 0.405 pC/g	
	į , . · ·
02E0022-009.002 Soil URS 10819 HPGe 02E0022-009 MH1-MH2 Stxpile E. K-40 13986-0-2 21.5 pC/g 02E0022-009.002 Soil URS 10819 HPGe 02E0022-009 MH1-MH2 Stxpile E. K-40 13986-0-2 21.5 pC/g	0
0250022-000-002 Sel UR\$10616 PPGe 02550022-009 MH1-MH2 Stype E. PA-234 15100-294 0.pC/g	
02E0022-009-002 Sol UR\$10619 HPGe 02E0022-009 MH1-MH2 Styple E. PA-234 15100-28-4 0.pC/g	0
02E0022-009.002 Soil URS10B19 HPGe 02E0022-009 MH1-MH2 Stiplie E. PA-234M 15100-28-4m 0 PCF9	1
07E0022-009 MH1-MH2 Strole E PA-234M 15100-28-4m 0 PCVg	0.
02E0022-009-002 Sol URS 10819 HPGe 02E0022-009 MH1-MH2 Stephs E. PB-212 15092-94-1 0.853 pC//g	ļ
02E0022-009-002 Sol URS10819 HPGe 02E0022-009 MH1-MH2 Strplie E. PB-212 15092-94-1 0.853 pC/lg 02E0022-009-002 Sol URS10819 HPGe 02E0022-009 MH1-MH2 Strplie E. PB-214 15067-28-4 0.593 pC/lg	
	
02E0022-009.002 Soil URS10819 HPGe 02E0022-009 MH1-MH2 Stople E. PO-210 13981-52-7 0 pC/g 02E0022-009.002 Soil URS10819 HPGe 02E0022-009 MH1-MH2 Stople E. PO-210 13981-52-7 0 pC/g	. 0
70F0072-009-002 Sed URS10919 HPGe 02E0022-009 MH1-MH2 Stople E. RA-226 (10031-23-9 2.89)pC/y9	F : 1
02E0022-009.002 Soil URS10819 HPGe 02E0022-009 MH1-MH2 Steplie E. RA-228 10031-23-9 2.89 pCVo	<u> </u>
02E0022-009.002 Sol URS10819 HPGe 02E0022-009 MH1-MH2 Steplie E. Th-231 14932-40-2 0 pC//9	<u></u>
02E0022-009.002 Soil URS10B19 MPGe 02E0022-009 MH1-MH2 Stepte E. Th-231 14932-40-2 0 C/G/I	0;
02E0022-009.002 Sol URS10819 HPGe 02E0022-009 MH1-MH2 Stiptle E. TL-208 (14913-50-9 0.333)-pC/g	



		, ,	1 march 170 4 17 4 8 22 march 15 miles	Proved High a course			Land Street	Laterates	i de esta es	121-484	I-UA	Water WATer	أحسسما	
22.2.3.4	d the control	54.5	1 CO. C. 1		Editor Liver Control		SCAS NOT		TON THE	000	10.05		17.0	113
02E0022-009.002	Sof	URS10819	HPGe	02E0022-009	MH1-MH2 Stkpile E.	TL-208	14913-50-9	0.33	3 pCi/p	1			. 0	
02E0022-009.002	Sol	UR\$10B19	HPGe	02E0022-009	MH1-MH2 Stkplie E.	Americium-241	14596-10-2		PCVg	1				4
02E0022-009.002	Sol	URS10819	HPGe	02E0022-009	MH1-MH2 Stkpille E. MH1-MH2 Stkpille E.	Americium-241 CESIUM-134	14598-10-2		pCVg				; 0	4
02E0022-009.002	Sol	UR\$10819	HPGe	02E0022-009 02E0022-009	MH1-MH2 Stypile E.	CESIUM-134	13967-70-9	1	PCV9		i i		٥,	,
02E0022-009.002	Sol	UR\$10819	HPGe	02E0022-009	MH1-MH2 Stkpte E.	THORIUM-230	14269-63-7		pCVg		ļi	i	٠. ٠,	
02E0022-009.002	Soll	URS10B19	HPGe	02E0022-009	MH1-MH2 Stkpile E.	THORIUM-230	14269-63-7		pCVg			-	٠	
02E0022-009.002	Sol	URS10B19	HPGe	02E0022-009	MH1-MH2 Stkpile E.	Urankım-235	15117-96-1		pCVg	1			;	. 1
02E0022-009.002	Sol	URS10819	HPGe	02E0022-009	MH1-MH2 Stkpite E.	Uranium-235	15117-96-1		pCVg_		<u> </u>		0	!!
02E0022-009.002 02E0022-009.002	Soil	URS10819 URS10819	HPGe HPGe	02E0022-009 02E0022-009	MH1-MH2 Stkpile E. MH1-MH2 Stkpile E.	Uranium-238 Uranium-238	7440-61-1 7440-61-1	1.3	pCVg		وما ما ما أو		: o	5
02E0022-010.002	Sol	URS10819	HPGe	02E0022-010	MH1-MH2 Stkplie M	IAC-228	7440-34-8		DCV0	1			; ,	. "
02E0022-010.002	Soil	UR\$10B19	HPGe	02E0022-010	MH1-MH2 Stkpile M	AC-228	7440-34-8		pCVg	1			. 0	
02E0022-010.002	Soll	URS10819	HPGe	02E0022-010	MH1-MH2 Stkpile M	BF212	14913-49-6	0.609	pCi/g	1			: •	
02E0022-010.002	Soil	URS10819	HPGe	02E0022-010	MH1-MH2 Stkplie M	BI-212	14913-49-6		pCVg	_!			0	
02E0022-010.002	Sol	URS10819	HPGe	02E0022-010	MH1-MH2 Stkpile M	BI-214	14733-03-0	0.38	DCV0				: .	
02E0022-010.002 02E0022-010.002	Sol	UR\$10819 UR\$10819	HPGe HPGe	02E0022-010 02E0022-010	MH1-MH2 Stkpills M MH1-MH2 Stkpills M	BF214 K-40	14733-03-0 13966-0-2		pCi/g	+				/
02E0022-010.002	Sol	URS10819	HPGe	02E0022-010	MH1-MH2 Strolle M	K-40	13966-0-2		pCi/g	 -	ł			
02E0022-010.002	Sol	URS10B19	HPGe	02E0022-010	MH1-MH2 Stepile M	PA-234	15100-28-4		pCVg				, š.	
02E0022-010.002	Sof	UR\$10819	HPGe	02E0022-010	MH1-MH2 Stkpille M	PA-234	15100-28-4		pCirg	1			. 0	*
02E0022-010.002	Soil	UR\$10B19	HPGe	02E0022-010	MH1-MH2 Sticpite M	PA-234M	15100-28-4m		pC/g				I	
02E0022-010.002	Sol	URS10B19	HPGe	02E0022-010	MH1-MH2 Stxpile M	PA-234M	15100-28-4m		pCVg		1		0	
02E0022-010.002	Sol	URS10819	HPGe	02E0022-010	MH1-MH2 Stople M	PB-212	15092-94-1		pCVg		 		:	!
02E0022-010.002 02E0022-010.002	Soll	URS10B19 URS10B19	HPGe HPGe	02E0022-010 02E0022-010	MH1-MH2 Steplie M MH1-MH2 Steplie M	PB-212 PB-214	15092-94-1 15087-28-4		pCVg	+	 			
02E0022-010.002	Sol	URS10819	HPGe	02E0022-010	MH1-MH2 Stiple M	PB-214	15087-28-4	0.42	pCVg	 -	 -		- ñ	
02E0022-010.002	Sol	URS10819	HPGe	02E0022-010	MH1-MH2 Steple M	PO-210	13981-52-7	1			 		1	•
02E0022-010.002	Sol	URS10B19	HPGe	02E0022-010	MH1-MH2 Stiple M	PO-210	13981-52-7		pC/g	1	1		0	
02E0022-010.002	Sol	URS10B19	HPGe	02E0022-010	MH1-MH2 Stkpille M	RA-226	10031-23-9		pCVg					
02E0022-010.002	Soll	UR\$10B19	HPGe	02E0022-010	MH1-MH2 Sticplie M	RA-226	10031-23-9		pC//g		l		0	
02E0022-010.002	Sol	UR\$10B19	HPGe	02E0022-010	MH1-MH2 Stkpile M	Th-231 Th-231	14932-40-2	1	pCVg		 		ني ـا	!
02E0022-010.002 02E0022-010.002	Sof	URS10B19 URS10B19	HPGe HPGe	02E0022-010 02E0022-010	MH1-MH2 Stkplie M MH1-MH2 Stkplie M	TL-208	14913-50-9	0.21	I pCVg	+				
02E0022-010.002	Sol	URS10B19	HPGe	02E0022-010	MH1-MH2 Stkpte M	TL-208	14913-50-9		pC/g	 	11		0	
02E0022-010.002	Sol	URS10819	HPGe	02E0022-010	MH1-MH2 Stople M	Americium-241	14596-10-2		pCVg		i			* 4
02E0022-010.002	Sol	URS10B19	HPGa	02E0022-010	MH1-MH2 Stkpile M	Americium-241	14596-10-2		pC/g				0	4
02E0022-010.002	Soll	UR\$10819	HPGe	02E0022-010	MH1-MH2 Sticpile M	CESIUM-134	13967-70-9		pCVg_					
02E0022-010.002	Sol	URS10B19	HPGe	02E0022-010	MH1-MH2 Stkpile M	CESIUM-134	13967-70-9		pCVg				. 0	
02E0022-010.002 02E0022-010.002	Soli	URS10B19 URS10B19	HPGe HPGe	02E0022-010 02E0022-010	MH1-MH2 Sticplie M MH1-MH2 Sticplie M	THORIUM-230 THORIUM-230	14269-63-7		pCVg					
02E0022-010.002		UR\$10B19	HPGe	02E0022-010	MH1-MH2 Strolle M	Urankm-235	15117-98-1		pCVg	+			1 1	
02E0022-010.002	Sol	URS10819	HPGe	02E0022-010	MH1-MH2 Stkpile M	Uranium-235	15117-98-1		pCVg	 	 			
02E0022-010.002	Sol	URS10B19	HPGe ·	02E0022-010	MH1-MH2 Sticplie M	Uranium-238	7440-61-1	0.638	pC/g	1				8
02E0022-010.002	Sol	URS10819		02E0022-010	MH1-MH2 Sticplie M	Uranium-238	7440-61-1		pC/g				Ö	8
02E0022-011.002		URS10B19		02E0022-011		AC-228	7440-34-8		pC/g_				ļi	
02E0022-011.002	Sol	UR\$10B19	HPGe	02E0022-011		AC-228 BI-212	7440-34-8		pC//g				0	
02E0022-011.002 02E0022-011.002	Soil Soil	URS10819 URS10819	HPGe HPGe	02E0022-011 02E0022-011		8F212 8F212	14913-49-6 14913-49-6		pCl/g					
02E0022-011.002	Sol	URS10819	HPGe	02E0022-011		BI-214	14733-03-0		pC/g	1			 	
02E0022-011.002	Sol	URS10B19	HPGe	02E0022-011	MH1-MH2 Stople W	BI-214	14733-03-0		pCV ₀	 	 		0,	
02E0022-011.002	Sof	URS10B19	HPGe		MH1-MH2 Stkpile W	K-40	13966-0-2		PCVQ					
02E0022-011.002		URS10B19	HPGe		MH1-MH2 Stkpille W	K-40	13966-0-2		pCVg				0	
02E0022-011.002		URS10B19				PA-234	15100-28-4		pCVg				آر.ــ . ا	
02E0022-011.002		URS10819	HPGe			PA-234	15100-28-4		pCVg				į 0;	- 1
02E0022-011.002 02E0022-011.002	Soll	URS10819 URS10819	HPGe HPGe			PA-234M PA-234M	15100-28-4m 15100-28-4m		pCVg				0	
02E0022-011.002	Sol	URS10819	HPGe	02E0022-011		PB-212	15092-94-1		pC/g	+	 			
02E0022-011.002	Sol	URS10819	HPGe	02E0022-011	MH1-MH2 Stkpile W	PB-212	15092-94-1	0.753	pCVg	1			О,	
02E0022-011.002	Sol	URS10819	HPGe	02E0022-011	MH1-MH2 Stkplie W	PB-214	15087-28-4	0.428	pCVg	1	<u> </u>		Li	
02E0022-011.002	Soll	UR\$10B19	HPGe			PB-214	15067-28-4	0.426	pCVg				0	
02E0022-011.002	Sol	UR\$10B19				PO-210	13981-52-7		pCVg	<u> </u>	 		 	
02E0022-011.002	Sol	URS10B19 URS10B19	HPGe HPGe			PO-210 RA-226 -	13981-52-7 10031-23-9		pCVg pCVg		ļ <u>-</u>		0	
02E0022-011.002 02E0022-011.002	Soll	UR\$10B19				RA-226 -	10031-23-9		pCVg		 		0	
02E0022-011.002	Sol	URS10B19				Th-231 .	14932-40-2		pCVg	1			† . †	
02E0022-011.002	Sol	URS10B19		02E0022-011	MH1-MH2 Stkpile W	Th-231	14932-40-2		pCVg				. 0	
02E0022-011.002	Sol	UR\$10B19	HPGe	02E0022-011		TL-208	14913-50-9	0.298	pC//g	1				: _!
02E0022-011.002		UR\$10819	HPGe			TL-208	14913-50-9		pCVg				0	
02E0022-011.002	Soft	UR\$10B19				Americium-241	14596-10-2		pCVg	+			ایـــا	
02E0022-011.002	Sol	URS10B19	HPGe	02E0022-011	MH1-MH2 Stkpile W	Americium-241	14596-10-2	1	l pCVg	1	! !		0	





	, ,			F07014'48.22500		I was a second of the second o	Total Control	**************************************	A COLUMN TO STATE OF THE STATE	er eine e sygneemeister genergen en gir
	II.		i sii ee a	ALAD NO CE	The section of the se	41.66	of Carro	RESULT & COURS		
02E0022-011.002	Sol	URS10B19	HPGe	02E0022-011	MH1-MH2 Stkpille W	CESIUM-134	13967-70-9	0 pCi/o		
02E0022-011.002	Sol	URS10B19	HPGe	02E0022-011	MH1-MH2 Stopile W	CESIUM-134	13967-70-9	0 pCi/g		
02E0022-011.002	Soil	URS10B19	HPGe	02E0022-011	MH1-MH2 Stkpile W	THORIUM-230	14269-63-7	0 pCVg	 	l
02E0022-011.002 02E0022-011.002	Sol	URS10819 URS10819	HPGe HPGe	02E0022-011 02E0022-011	MH1-MH2 Sticpile W MH1-MH2 Sticpile W	THORIUM-230 Uranium-235	14269-63-7 15117-96-1	0 pCi/g 0.151 pCi/g	 -	ļ
02E0022-011.002	Sol	URS10819	IHPGe	02E0022-011	MH1-MH2 Stkpile W	Uranium-235	15117-96-1	0.151 pCVg	 	
02E0022-011.002	Sol	UR\$10B19	HPGe	02E0022-011	MH1-MH2 Stkpile W	Uranium-238	7440-61-1	1.31 pCVg	 	
02E0022-011.002	Sol	URS10819	HPGe	02E0022-011	MH1-MH2 Sticpile W	Uranium-238	7440-61-1	1.31 pCVg		1 0;
02E0022-012.002	Sol	URS10B19	HPGe	02E0022-012	Dup, Stockpile W	AC-228	7440-34-8	0.839 pCVg		
02E0022-012.002	Sol	URS10B19	HPGe	02E0022-012	Dup. Stockpile W	AC-228	7440-34-8	0.839 pCi/g	·i	<u> </u>
02E0022-012.002 02E0022-012.002	Sol	URS10819 URS10819	HPGe HPGe	02E0022-012 02E0022-012	Dup. Stockpile W Dup. Stockpile W	B-212 B-212	14913-49-6 14913-49-6	1.17 pC//g 1.17 pC//g	 	ļ
02E0022-012.002	Sol	URS10819	HPGe	02E0022-012	Dup. Stockpile W	BF214	14733-03-0	0.455 pC/g	 	·
02E0022-012.002	Sol	URS10819	HPGe	02E0022-012	Dup. Stockpite W	BI-214	14733-03-0	0.455 pCi/g	 	1 0:
02E0022-012.002	Sol	UR\$10B19	HPGe	02E0022-012	Dup. Stockpile W	K-40	13966-0-2	20.4 pCVg		
02E0022-012.002	Sol	URS10B19	MPGe	02E0022-012	Dup. Stockpile W	K-40	13966-0-2	20.4 pCVg	ļl	0,
02E0022-012.002	Soil	URS10819	HPGe	02E0022-012	Dup. Stockplie W	PA-234	15100-28-4	0 pCvq		
02E0022-012.002 02E0022-012.002	Sol	URS10B19 URS10B19	HPGe HPGe	02E0022-012 02E0022-012	Dup. Stockpile W Dup. Stockpile W	PA-234 PA-234M	15100-28-4 15100-28-4m	O pCVg	+	
02E0022-012.002	Sol	URS10B19	HPGe	02E0022-012	Dup. Stockpile W	PA-234M	15100-28-4m	0 pCVg		j
02E0022-012.002	Sol	URS10819	HPGe	02E0022-012	Dup, Stockpile W	PB-212	15092-94-1	0.878 pCVg		T
02E0022-012.002	Soll	URS10B19	HPGe	02E0022-012	Dup. Stockpile W	PB-212	15092-94-1	0.878 pCVg	1	
02E0022-012.002	Sol	UR\$10819	HPGe	02E0022-012	Dup. Stockpile W	PB-214	15067-28-4	0.442 pCVg	1	T
02E0022-012.002	Sol	URS10819	HPGe	02E0022-012	Dup. Stockpile W	PB-214	15067-28-4	0.442 pCVg		
02E0022-012.002	Sof	URS10B19	HPGe	02E0022-012	Dup. Stockpile W	PO-210	13981-52-7	0 pCVg	<u> </u>	<u> </u>
02E0022-012.002 02E0022-012.002	Sol	URS10819 URS10819	HPGe HPGe	02E0022-012 02E0022-012	Dup. Stockpile W Dup. Stockpile W	PO-210 RA-226	13981-52-7	0 pC/g	ļ l	ļ i ".
02E0022-012.002	Sol	URS10819	HPGe	02E0022-012	Dup, Stockpile W	RA-226	10031-23-9	1.81 pC/g		0
02E0022-012.002	Soll	UR\$10819	HPGe	02E0022-012	Dup. Stockpile W	Th-231	14932-40-2	0 pCVg	†	1 - 1 - 1
02E0022-012.002	Sol	UR\$10B19	HPGe	02E0022-012	Dup. Stockpile W	Th-231	14932-40-2	0 pCVg		. 0.
02E0022-012.002	Sol	UR\$10819	HPGe	02E0022-012	Dup. Stockpile W	TL-208	14913-50-9	0.29 pCVg	1	
02E0022-012.002	Sof	UR\$10B19	HPGe	02E0022-012	Dup, Stockpile W	TL-208	14913-50-9	0.29 pCVg	4	0
02E0022-012.002 02E0022-012.002	Sol	UR\$10B19	HPGe HPGe	02E0022-012 02E0022-012	Dup. Stockpile W Dup. Stockpile W	Americium-241 Americium-241	14596-10-2 14596-10-2	0 pCVg		
02E0022-012.002	Sol	URS10819	HPGe	02E0022-012	Dup. Stockpile W	CESIUM-134	13967-70-9	0 pCVg		
02E0022-012.002	Sol	URS10819	HPGe	02E0022-012	Dup. Stockpile W	CESIUM-134	13987-70-9	0 pCVg	† - 	0
02E0022-012.002	Sol	URS10B19	HPGe	02E0022-012	Dup. Stockpile W	THORIUM-230	14269-63-7	OlpCVg	1	1
02E0022-012.002	Sol	UR\$10B19	HPGe	02E0022-012	Dup. Stockpile W	THORIUM-230	14269-63-7	0 ecne		
02E0022-012.002	Soll	URS10819	HPGe	02E0022-012	Dup. Stockpile W	Uranium-235	15117-96-1	0 pCl/g	<u> </u>	
02E0022-012.002	Sol	URS10B19	HPGe	02E0022-012	Dup. Stockpile W	Uranium-235 Uranium-238	15117-96-1	0 pCVg	 	· · · · · · · · · · · · · · · ·
02E0022-012.002 02E0022-012.002	Sol	UR\$10B19 UR\$10B19	HPGe HPGe	02E0022-012 02E0022-012	Dup. Stockpile W Dup. Stockpile W	Uranium-238	7440-61-1 7440-61-1	0 pCVg	 -	
02E0022-013.002	Sol	UR\$10819	HPGe	02E0022-012	N MH-2 Strotte N	AC-228	7440-34-8	1.19 pCVg	 	
02E0022-013.002	Sol	UR\$10819	HPGe ·	02E0022-013	N MH-2 Stiplie N	AC-228	7440-34-8	1.19 pCVg	ļ · · ·	· · · · · · · · · · · · · · · · · · ·
02E0022-013.002	Sol	UR\$10B19	HPGe	02E0022-013	N MH-2 Stopile N	BI-212	14913-49-6	1.5 pCVg		
02E0022-013.002	Sol	UR\$10B19	HPGe	02E0022-013	N MH-2 Stkplie N 1	BI-212	14913-49-6	1.5 pCVg	1	0
02E0022-013.002	Sol	UR\$10819	HPGe	02E0022-013	N MH-2 Stkplie N	BF214	14733-03-0	0.394 pCVg	.	
02E0022-013.002 02E0022-013.002	Sol	UR\$10B19 UR\$10B19	HPGe HPGe	02E0022-013 02E0022-013	N MH-2 Stkpile N N MH-2 Stkpile N	BF214 K-40	14733-03-0 13966-0-2	0.394 pCl/g 12.3 pCl/g	- <u>-</u>	
02E0022-013.002	Sol	URS10819	HPGe	02E0022-013	N MH-2 Stople N	K-40	13966-0-2	12.3 pC/g	 	- 0
02E0022-013.002	Sol	URS10B19	HPGe	02E0022-013	N MH-2 Stkplie N		15100-28-4	0 pCVg	 	1
02E0022-013.002	Soll	UR\$10B19	HPGe	02E0022-013	N MH-2 Stkpille N	PA-234	15100-28-4	0 pCVg		0
02E0022-013.002	Soil	URS10B19	HPGe	02E0022-013	N MH-2 Stkpille N	PA-234M	15100-28-4m	0 pCVg	1	1
02E0022-013.002	Sol	UR\$10B19	HPGe	02E0022-013	N MH-2 Stkpile N	PA-234M PB-212	15100-28-4m	0 pCVg	 	
02E0022-013.002 02E0022-013.002	Sol	URS10B19 URS10B19	HPGe HPGe	02E0022-013 02E0022-013	N MH-2 Stkpile N N MH-2 Stkpile N	PB-212	15092-94-1 15092-94-1	1.07 pCVg 1.07 pCVg		1 - 1
0260022-013.002		UR\$10819	HPGe	02E0022-013	N MH-2 Stiplie N	PB-214	15087-28-4	0.434 pCVg	 	
02E0022-013.002	Sol	URS10819	HPGe	02E0022-013	N MH-2 Stkpile N	PB-214	15067-28-4	0.434 pCVg		
02E0022-013,002	Sol	UR\$10B19	HPGe	02E0022-013	N MH-2 Stkpile N	PO-210	13981-52-7	0 pCVg	1. 1	1 1
02E0022-013.002	Sol	URS10819	HPGe	02E0022-013	N MH-2 Sticplia N	PO-210	13981-52-7	O pCVg		
02E0022-013.002	Sol	URS10819	HPGe	02E0022-013	N MH-2 Stopile N	RA-226	10031-23-9	0 pCVg	 	<u> </u>
02E0022-013,002 02E0022-013,002	Sol	UR\$10B19 UR\$10B19	HPGe HPGe	02E0022-013 02E0022-013	N MH-2 Stkpile N N MH-2 Stkpile N	RA-226 Th-231	10031-23-9	0 pCVg	 -	ļ
02E0022-013.002	Soil	URS10B19	HPGe	02E0022-013	N MH-2 Stypie N	Th-231	14932-40-2	0 pC/g		
02E0022-013.002	Sol	UR\$10819	HPGe	02E0022-013	N MH-2 Stiple N	TL-208	14913-50-9	0.426 pCVg	 	
02E0022-013.002	Sol	UR\$10B19	HPGe	02E0022-013	N MH-2 Stkpile N	TL-208	14913-50-9	0.426 pCVg		0
02E0022-013.002	Soll	UR\$10819	HPGe	02E0022-013	N MH-2 Stkptle N	Americium-241	14598-10-2	0 pCi/g		
02E0022-013.002	Sol	URS10B19	HPGe	02E0022-013	N MH-2 Stopile N	Americium-241	14596-10-2	0 pCVg		0
02E0022-013.002	Sol	URS10B19	HPGe	02E0022-013	N MH-2 Stkpile N	CESIUM-134	13967-70-9	0 pCVg		
02E0022-013.002	Sof	UR\$10B19 UR\$10B19	HPGe HPGe	02E0022-013 02E0022-013	N MH-2 Stkpile N N MH-2 Stkpile N	CESIUM-134 THORIUM-230	13967-70-9 14269-63-7	0 pCVg	 	
02E0022-013.002	Sol	פומטובאטן	Incae	02E0022-013	IN MICE SIXPAG IN	IIIONIO#-230	17205-05-7	. viposg		



			CHARLY STATE	No letter	No. 2 and Company of the Ballion of St. &	DATE OF THE STATE	W/F 12 (1982)		RESULT		1	1100 0002
المنت المنتفذ	L Manager		THE MEDICONE	TO SOLIT	Section of the sectio	AVIA CELEBRATE	製CAS NO 差	RESULTS	SUNTE	COUNCIDE COM		10000000000000000000000000000000000000
02E0022-013.002	Soil		(HPGe	02E0022-013	N MH-2 Stkplie N	THORIUM-230	14269-63-7	0	pCVg :		 	<u> </u>
02E0022-013.002 02E0022-013.002	Sot	URS10819 URS10819	HPGe HPGe	02E0022-013 02E0022-013	N MH-2 Stkpile N N MH-2 Stkpile N	Uranium-235 Uranium-235	15117-96-1 15117-96-1	0.172 0.172			ļ	-!
02E0022-013.002	Sol	URS10B19	HPGe	02E0022-013	N MH-2 Stkpile N	Uranium-238	7440-61-1	0.907				
02E0022-013.002	Sol	URS10B19	HPGe ·	02E0022-013	N MH-2 Stkpile N	Uranium-238	7440-61-1	0.907				' õ' 8
02E0022-014.002	Sof	URS10819	HPGe	02E0022-014	N MH-2 Stkolle M	AC-228	7440-34-8		pCVa		†	
02E0022-014.002	Sol	URS10B19	HPGe	02E0022-014	N MH-2 Stkpile M	AC-228	7440-34-8		pC/g		Ī	
02E0022-014.002	Sol	URS10819	HPGe	02E0022-014	N MH-2 Stkpile M	BI-212	14913-49-6		pCi/g	. 4 -	ľ	i .
02E0022-014.002	Sof	URS10B19	HPGe	02E0022-014	N MH-2 Stkpile M	BI-212	14913-49-6		pCi/g		<u></u>	. 0
02E0022-014.002	Sol	UR\$10B19	HPGe	02E0022-014	N MH-2 Stkplie M	BI-214 BI-214	14733-03-0	0.567 0.567			-i ·	
02E0022-014.002 02E0022-014.002	Sol	URS10819 URS10819	HPGe HPGe	02E0022-014 02E0022-014	N MH-2 Stkpile M N MH-2 Stkpile M	K-40	13966-0-2		pCVg			١ ٠
02E0022-014.002	Sol	UR\$10B19	HPGe	02E0022-014	N MH-2 Stkpile M	K-40	13966-0-2		pCVg		•	
02E0022-014.002	Sol	UR\$10819	HPGe	02E0022-014	N MH-2 Stkpile M	PA-234	15100-28-4		pCVg		d	7 . 7
02E0022-014.002	Sol	URS10B19	HPGe	02E0022-014	N MH-2 Stkpile M	PA-234	15100-28-4		pCVg :			-·· oʻ
02E0022-014.002	Sol	URS10B19	HPGe	02E0022-014	N MH-2 Stkplie M	PA-234M	15100-28-4m		pCVg		<u>. </u>	
02E0022-014,002	Sol	UR\$10819	HPGe	02E0022-014	N MH-2 Stkpile M	PA-234M	15100-28-4m		pCVg			
02E0022-014.002	Sol .	URS10B19	HPGe	02E0022-014	N MH-2 Stkpile M	PB-212 PB-212	15092-94-1	1.32	pCi/g		ļ	٠ .
02E0022-014.002 02E0022-014.002	Soll	URS10B19 URS10B19		02E0022-014	N MH-2 Stkpile M N MH-2 Stkpile M	PB-214	15092-94-1 15067-28-4	0.821	pCVg		• •	, <i>o.</i>
02E0022-014.002	Sol	URS10819		02E0022-014 02E0022-014	N MH-2 Sticpite M	PB-214	15067-28-4	0.821	oCi/o		·	" " o "
02E0022-014.002	Sol	URS10B19		02E0022-014	N MH-2 Stkpile M	PO-210	13981-52-7		pCi/o		 	
02E0022-014.002	Sol	URS10819		02E0022-014	N MH-2 Stkpile M	PO-210	13981-52-7	0	pCVg		1	ا ه
02E0022-014.002	Sof	UR\$10B19	HPGe	02E0022-014	N MH-2 Stkpile M	RA-226	10031-23-9		pCV0		i	; .
02E0022-014.002	Soll	UR\$10B19			N MH-2 Stkpile M	RA-226	10031-23-9		pCVg	1		0
02E0022-014.002	Soll	UR\$10B19		02E0022-014	N MH-2 Stkplie M	Th-231 Th-231	14932-40-2		pCi/g		<u>.</u>	: .
02E0022-014.002 02E0022-014.002	Sol	URS10B19 URS10B19		02E0022-014 02E0022-014	N MH-2 Stkpille M N MH-2 Stkpille M	TL-231	14932-40-2	0,487	pCVg		•	: '
02E0022-014.002	Sol	URS10819		02E0022-014	N MH-2 Stkpte M	TL-208	14913-50-9	0.467	nCVo		1	: 0.
02E0022-014.002	Sol	URS10B19		02E0022-014	N MH-2 Sticplie M	Americium-241	14596-10-2		pCVg :		 	4
02E0022-014.002	Sol	URS10B19	HPGe	02E0022-014	N MH-2 Stypile M	Americum-241	14596-10-2		pCVg		· · · · · · · · · · · · · · · · · · ·	0 4
02E0022-014.002	Sol	URS10B19		02E0022-014	N MH-2 Stkpile M	CESIUM-134	13967-70-9		pCVg	. :	·	
02E0022-014.002	Soft	UR\$10B19	HPGe	02E0022-014	N MH-2 Stkpile M	CESIUM-134	13967-70-9		pCVg		i Name and the second state of the second	0.
02E0022-014.002 02E0022-014.002	Sol	URS10B19	HPGe HPGe	02E0022-014 02E0022-014	N MH-2 Stkpile M N MH-2 Stkpile M	THORIUM-230 THORIUM-230	14269-63-7		pCVg pCVg		‡	
02E0022-014.002	Sol	URS10819	HPGe	02E0022-014	N MH-2 Stxpile M	Uranium-235	15117-98-1		pCVg	···	ļ	. " 1
02E0022-014.002	Sol	URS10819		02E0022-014	N MH-2 Stkplie M	Uranium-235	15117-96-1		pCVg			0 1
02E0022-014.002	Sol	URS10B19	HPGe	02E0022-014	N MH-2 Stkpite M	Uranium-238	7440-61-1		pCVg			8
02E0022-014.002	Sol	UR\$10B19	HPGe	02E0022-014	N MH-2 Stkpile M	Uranium-238	7440-61-1		pCVg			0 8
02E0022-015.002	Soll	URS10B19	HPGe	02E0022-015	N MH-2 Stkpile S	AC-228	7440-34-8		pCVg			
02E0022-015.002	Soll	URS10B19	HPGe	02E0022-015	N MH-2 Stkpile S	AC-228	7440-34-8		pCVg		ļ	
02E0022-015.002	Sol	URS10819 URS10819		02E0022-015 02E0022-015	N MH-2 Stophe S	B-212 B-212	14913-49-6 14913-49-6		pCV0		ļ	
02E0022-015.002 02E0022-015.002	Soil Soil	UR\$10819		02E0022-015	N MH-2 Stkplie S N MH-2 Stkplie S N	BF212 BF214	14733-03-0	0.753	pCVg		·	; ";
02E0022-015.002		URS10B19		02E0022-015	N MH-2 Stople S	BI-214	14733-03-0	0.753			 	-io:
02E0022-015.002		UR\$10819		02E0022-015	N MH-2 Stkpile S	K-40	13966-0-2		pCVg			
02E0022-015.002		URS10B19		02E0022-015	N MH-2 Stkpile S	K-40	13966-0-2		pCVg			0
02E0022-015.002		UR\$10B19		02E0022-015	N MH-2 Stkpile S	PA-234	15100-28-4		pCi/g			
02E0022-015.002		URS10B19			N MH-2 Sticpille S	PA-234	15100-28-4		pCVg			0
02E0022-015.002		UR\$10819		02E0022-015	N MH-2 Stopile S	PA-234M	15100-28-4m		pCV9		 	-ii
02E0022-015.002 02E0022-015.002		URS10B19 URS10B19		02E0022-015 02E0022-015	N MH-2 Stkpile S N MH-2 Stkpile S	PA-234M PB-212	15100-28-4m 15092-94-1	172	pCl/g pCl/g		 	
02E0022-015.002		UR\$10819			N MH-2 Stople S	PB-212	15092-94-1	1.74			 	
02E0022-015.002		UR\$10819	HPGe		N MH-2 Stkpte S	PB-214	15067-28-4	0.683			-	
02E0022-015.002	Sol	URS10819	HPGe	02E0022-015	N MH-2 Stkplie S	PB-214	15087-28-4	0.683	pCVg		I	0
02E0022-015.002	Soll	URS10819			N MH-2 Stiople S	PO-210	13981-52-7	0	pCVg			1. 1. 1
02E0022-015.002		URS10819			N MH-2 Stkpile S	PO-210	13981-52-7		pCVg		<u> </u>	0
02E0022-015.002 02E0022-015.002	Sol	URS10819 URS10819			N MH-2 Stkplie S N MH-2 Stkplie S	RA-226 RA-226	10031-23-9		pCVg pCVg			
02E0022-015.002		URS10819			N MH-2 Stopie S	Th-231	14932-40-2		pCVg	. .	1	
02E0022-015.002		UR\$10819			N MH-2 Sticpte S	Th-231	14932-40-2		pCV ₀		t	0
02E0022-015.002		URS10819			N MH-2 Stkpile S	TL-208	14913-50-9	0.563	pCVg		I	
02E0022-015.002	Soll	URS10819	HPGe .	02E0022-015	N MH-2 Sticptie S	TL-208	14913-50-9	0.563				0
02E0022-015.002		URS10819			N MH-2 Stixplie S	Americium-241	14596-10-2		pCVg			44
02E0022-015.002		URS10B19			N MH-2 Stkpile S	Americium-241 CESIUM-134	14596-10-2		pCVg		 	0 4
02E0022-015.002 02E0022-015.002		UR\$10819 UR\$10819			N MH-2 Stkpile S N MH-2 Stkpile S	CESIUM-134 CESIUM-134	13967-70-9 13967-70-9		pCVg pCVg		 	-
02E0022-015.002	Sol	UR\$10819			N MH-2 Stkpile S	THORIUM-230	14269-63-7		pCi/g		 	-
02E0022-015.002		UR\$10B19			N MH-2 Stopie S	THORIUM-230	14269-63-7		pCi/g		<u> </u>	0
02E0022-015.002		URS10B19			N MH-2 Stypile S	Uranium-235	15117-96-1	0.161			I	1
02E0022-015.002					N MH-2 Stkpile S	Uranium-235	15117-96-1	0.161			I	0 1





	4 2 70 00 1 00 00000 70 00000000000000000		diameter of the state of the st	STATE OF THE PERSON	Bankanistinanistaria				and district	45715	-VAI-	منصنعة دادات مستحد		
للفالم التكلك	tidate.		ilanietts.	SAMPOUNT	with the state of the same	il	EC (5 NOT	at st qu	EUR TE		100 %			
02E0022-015.002	Sol		HPGe		N MH-2 Stkpile S	Uranium-238	7440-61-1		рСИ	1				6
02E0022-015.002 02E0022-016.002	Sol	URS10819 URS10819	HPGe HPGe	02E0022-015 02E0022-016	N MH-2 Stypile S Dup N MH-2 Styp S	Uranium-238 AC-228	7440-61-1 7440-34-8		pC/g	· 			0	8
02E0022-016.002	Sol	URS10819	HPGe	02E0022-016	Dup N MH-2 Step S	AC-228	7440-34-8	2.01		-			0.	
02E0022-016.002	Sol	URS10819	HPGe		Dup N MH-2 Stkp S	BF212	14913-49-6		pCVg	 			·* ·	!
02E0022-016.002	Solt	UR\$10819	HPGe	02E0022-018	Dup N MH-2 Stkp S	BI-212	14913-49-6	1.89	pCVg				0	
02E0022-016.002 02E0022-016.002	(Sol	URS10819 URS10819	HPGe	02E0022-016 02E0022-016	Dup N MH-2 Step 8 Dup N MH-2 Step S	BI-214 BI-214	14733-03-0		pCl/g	.				
02E0022-018.002	Sol	URS10819	HPGe	02E0022-018	Dup N MH-2 Stkp S	K-40	14733-03-0 13966-0-2		pCVg				0!	
02E0022-016.002	Soll	URS10B19	HPGe	02E0022-018	Dup N MH-2 Stkp S	K-40	13968-0-2		pCVg	1			- 0	
02E0022-016.002	Sol	URS10819	HPGe	02E0022-018	Dup N MH-2 Stkp S	PA-234	15100-28-4		pCi/g	İ			1	
02E0022-016.002	Soll	URS10819	HPGe		Dup N MH-2 Stkp S	PA-234	15100-28-4		pCl/g				0	
02E0022-018.002 02E0022-018.002	Sol	URS10B19	HPGe	02E0022-018 02E0022-018	Dup N MH-2 Stop S Dup N MH-2 Stop S	PA-234M PA-234M	15100-28-4m 15100-28-4m		pCi/g	 -			 _ 	
02E0022-016.002	Sol	URS10819	HPGe	02E0022-016	Dup N MH-2 Sttp S	P8-212	15092-94-1		pCi/g	+			ļo	
02E0022-016.002	Sol	URS10819	HPGe	02E0022-016	Dup N MH-2 Stxp S	PB-212	15092-94-1		pCl/g	·			0	
02E0022-016.002	Sol	URS10819	HPGe		Dup N MH-2 Stkp S	PB-214	15087-28-4		pCi/g					
02E0022-018.002 02E0022-016.002	Soil	URS10B19	HPGe		Dup N MH-2 Stkp S	PB-214	15087-28-4	0.834	pCVg				0	
02E0022-016.002	Sol	URS10819 URS10819	HPGe HPGe	02E0022-018 02E0022-018	Dup N MH-2 Stkp 8	PO-210 PO-210	13981-52-7		pCVg	ļ				
02E0022-016.002	Sol	URS10819	HPGe		Dup N MH-2 Stkp S Dup N MH-2 Stkp S	RA-226	13981-52-7	<u> </u>	pC/g				0	
02E0022-016.002	Sol	UR\$10B19	HPGe		Dup N MH-2 Stop S	RA-226	10031-23-9		pCi/g	†			0:	
02E0022-016.002	Solt	URS10B19	HPGe	02E0022-018	Dup N MH-2 Stkp S	Th-231	14932-40-2		pCVg	1				
02E0022-016.002	Sol	URS10819	HPGe	02E0022-018	Dup N MH-2 Stkp S	Th-231	14932-40-2	0	pCVg	L			ô	
02E0022-016.002 02E0022-016.002	Sol	URS10819	HPGe HPGe	02E0022-016	Dup N MH-2 Stkp S	TL-208	14913-50-9	0.576	pCVg	1				
02E0022-016.002	Sof	URS10B19	HPGe	02E0022-018	Dup N MH-2 Stkp S Dup N MH-2 Stkp S	Americium-241	14913-50-9 14596-10-2	0.576	pCVg pCVg	ļ				
02E0022-016.002	Sol	URS10B19	HPGe		Dup N MH-2 Stkp S	Americium-241	14596-10-2	1	pCVg	1			0	7
02E0022-016.002	Sol	URS10819	HPGe	02E0022-016	Dup N MH-2 Stkp S	CESIUM-134	13967-70-9		pCVg	1				
02E0022-016.002	Soil	URS10819	HPGe		Dup N MH-2 Stkp S	CESIUM-134	13967-70-9		pCVg				0	
02E0022-016.002 02E0022-016.002	Sol	URS10B19	HPGe HPGe	02E0022-018 02E0022-016	Dup N MH-2 Stkp S Dup N MH-2 Stkp S	THORIUM-230 THORIUM-230	14269-63-7 14269-63-7		pCVg pCVg	ļ				
02E0022-016.002	Sol	URS10819	HPGe	02E0022-016	Dup N MH-2 Sttp S	Uranium-235	15117-96-1		pCVg				°;	
02E0022-016.002	Sol	URS10B19	HPGe		Dup N MH-2 Stkp S	Uranium-235	15117-96-1		pCVg	 				
02E0022-016.002	Sol	URS10B19	HPGe	02E0022-016	Dup N MH-2 Stkp S	Uranium-238	7440-61-1		pCVg	I			i .	8
02E0022-016.002 02E0053-012.001	Soil Pipe Scale	JURS10B19 IMET-A-031	HPGe SW-846-TOTAL	02E0022-016 02E0053-012	Dup N MH-2 Stkp S BU38-000	Urankum-238	7440-61-1		pCVg	 			0′	6
02E0053-012.001	Pipe Scale	MET-A-031			BU38-000	Arsenic	7440-38-2 7440-38-2		WREC	ļ				3.4]
02E0053-012.001	Pipe Scale	MET-A-031	SW-846-TOTAL	02E0053-012	BU38-000	Arsenic	7440-38-2		%REC				• •	-
02E0053-012.001	Pipe Scale	MET-A-031	SW-848-TOTAL	02E0053-012	BU38-000	Barium	7440-39-3	97	%REC	Ĺ	1			
02E0053-012.001 02E0053-012.001	Pipe Scale	MET-A-031	SW-846-TOTAL SW-846-TOTAL	02E0053-012 02E0053-012	BU38-000 BU38-000	8artum	7440-39-3		UG/L	В				0.86
02E0053-012.001	Pipe Scale	MET-A-031	SW-846-TOTAL		BU38-000	Cadmium	7440-43-9		WREC					. 0.35
02E0053-012.001	Pipe Scale	MET-A-031	SW-846-TOTAL		BU38-000	Cadmium	7440-43-9		%REC	 -	- !		;	
02E0053-012.001	Pipe Scale	MET-A-031	SW-846-TOTAL		BU38-000	CHROMIUM	7440-47-3		UG/L	В				0.51
02E0053-012.001	Pipe Scate		SW-846-TOTAL		BU38-000	CHROMIUM	7440-47-3		%REC					
02E0053-012.001 02E0053-012.001	Pipe Scale Pipe Scale	MET-A-031	SW-846-TOTAL SW-846-TOTAL		BU38-000 BU38-000	CHROMIUM	7440-47-3		%REC	ļ;	_:		. :	
02E0063-012.001	Pipe Scale	MET-A-031	SW-846-TOTAL		BU38-000	Lead Lead	7439-92-1 7439-92-1		%REC UG/L	1				٠,
02E0053-012.001	Pipe Scale		SW-848-TOTAL		BU38-000	Mercury	7439-97-6	0.023		tu		*		0.023
02E0053-012.001	Pipe Scale	MET-A-031	SW-848-TOTAL	02E0053-012	BU38-000	Mercury	7439-97-6	105	%REC				· · -; ·	
02E0053-012.001	Pipe Scale	MET-A-031	SW-846-TOTAL		BU38-000	Mercury	7439-97-6		%REC		<u>.</u>			
02E0053-012.001 02E0053-012.001	Pipe Scale Pipe Scale	MET-A-031	SW-846-TOTAL		BU38-000 BU38-000	Selenium Selenium	7782-49-2		WREC	<u> B</u>				4.8
02E0083-012.001	Pipe Scale	MET-A-031	SW-848-TOTAL		BU38-000	Silver	7440-22-4		UGAL					0.47
02E0053-012.001	Pipe Scale	MET-A-031	SW-848-TOTAL		BU38-000	Silver	7440-22-4		%REC		. :		:	٧.٠٠/
02E0053-012.002	Pipe Scale		SW-846 8260		BU38-000	BENZENE, 1,2,3,5-TETRAMETHYL-	527-53-7	9.9	UG/KG	J				1
02E0053-012.002 02E0053-012.002	Pipe Scale		SW-846 8260		BU38-000	HEXANAL	66-25-1		UG/KG	1				
02E0063-012.002	Pipe Scale Pipe Scale	VOA- A-011	SW-846 8260 SW-846 8260		BU38-000 BU38-000	UNKNOWN 1,1,1,2-TETRACHLOROETHANE	TIC 630-20-6			ال ان				l.
02E0053-012.002	Pipe Scale	VOA- A-011	SW-846 8280		BU38-000	1,1,1-TCA	71-55-6			Ü	;	. ;		- 1
02E0063-012.002	Pipe Scale	VOA- A-011	SW-846 8260	02E0053-012	BU38-000	1,1,2,2-Tetrachloroethane	79-34-5	5.2	UG/KG	Ü				
02E0053-012.002	Pipe Scale	VOA- A-011	SW-846 8260		BU38-000	1,1,2-TCA	79-00-5			U	. !			1.6
02E0053-012.002 02E0053-012.002	Pipe Scale Pipe Scale	VOA- A-011			BU38-000 BU38-000	1,1,2-TRICHLOROTRIFLUOROETHANE	76-13-1			<u> </u>				1.3
02E0053-012.002	Pipe Scale	VOA- A-011			BU38-000	1,1-DCE	75-34-3 75-35-4			iu i	 -			
02E0053-012.002	Pipe Scale	VOA- A-011	SW-848 8260	02E0053-012	BU38-000	1,1-DCE	75-35-4		%REC	<u> </u>				: '
02E0063-012.002	Pipe Scale	VOA- A-011	SW-846 8260		BU38-000	1,1-DCE	75-35-4		%REC	<u> </u>				
02E0053-012.002 02E0053-012.002	Pipe Scale Pipe Scale	VOA- A-011	SW-848 8260 SW-846 8260		BU38-000 BU38-000	1,1-DICHLOROPROPENE 1,2 DICHLOROETHANE -D4	563-58-6			U			<u>-</u>	0,96
02E0063-012.002	Pipe Scale				BU38-000		17060-07-0 87-61-6		%REC UG/KG	<u> </u>	· · · ·			0.85
	1. 4	- en men	,			, ,,-,- /INDITED/NOUGHEEITE	UVI-U	J.Z		,				0.00





Security on the contract of th			Company of the Company			Learning to the same of	Latina and American	прести	A PT P 1 - VT	InWALES		-	
The state of the s	10.		SEAR NOVE			CAS NOW	TRESULTS	UNITE	100	500		110	建筑
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-848 8260	02E0053-013	NA	1,1,2-TCA	79-00-5		I UG/L	÷υ			1	0,41
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0053-013	NA .	1,1,2-TRICHLOROTRIFLUOROETHANE	76-13-1	i	I UG/L	U				0.56
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-848 8280	02E0053-013	NA	1,1-DCA	75-34-3		UG/L	U	,			0.29
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260	0220000 010	INA	1,1-DCE	75-35-4		UGAL	U		<u> </u>		0.31
02E0053-013.001 Water Quality Control Matrix 02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260 SW-846 8260	0220000 010	NA	1,1-DICHLOROPROPENE	17060-07-0		UG/L	:0	<u>.</u>			0.29
02E0053-013.001 Water Quality Control Matrix 02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-848 8280	02E0053-013 02E0053-013	NA	1,2 DICHLOROETHANE -D4 1,2,3-TRICHLOROBENZENE	87-61-6	91	IUGAL	- ia	بسينية			0.62
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-848 8260	02E0053-013	NA	1,2,3-TRICHLOROPROPANE	96-18-4		I UG/L	ΰ				0.76
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260		NA .	1,2,4-Trichlorobenzene	120-82-1	;	1 UG/L	ີ່ບໍ່			; .	0.63
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260		NA	1,2-DCA	107-06-2		1 UG/L	Ü		[1	0.43
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0053-013	NA	1,2-DCB	95-50-1		1 UG/L	U	1			0.3
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-848 8260	02E0053-013	NA	1,2-Dibromo-3-chloropropane	96-12-8		UGAL	π	i	E		0,49
02E0063-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260		NA .	1,2-DIBROMOETHANE	106-93-4		1 UG/L	10	ļ	i		0.46
02E0053-013,001 Water Quality Control Matrix 02E0053-013,001 Water Quality Control Matrix	VOA-A-009	SW-846 8260 SW-846 8260		NA .	1,2-Dichtoropropane	78-87-5 541-73-1		1 UG/L	. U			:	0.38
02E0053-013.001 Water Quality Control Matrix 02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-848 8280	02E0053-013 02E0053-013	INA	1,3-DICHLOROBENZENE 1,3-DICHLOROPROPANE	142-28-9		I UG/L	10	-	-		0.37
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-848 8260	02E0053-013	NA	1,4-DCB	108-46-7		1 UG/L	tū			; .	0.31
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0053-013	NA .	2,2-DICHLOROPROPANE	594-20-7		UG/L	Ü	-	·		0.37
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0053-013	NA	2-Butanone	78-93-3		UG/L	Ü	i			2.4
02E0053-013,001 Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0053-013	NA .	2-HEXANONE	591-78-6		UG/L	U				1.8
02E0053-013,001 Water Quality Control Matrix	VOA-A-009	SW-846 8260		NA	4-ISOPROPYLTOLUENE	99-87-6		I UGAL	U				0.32
02E0053-013,001 Water Quality Control Matrix	VOA-A-009	SW-848 8260	02E0053-013	NA .	4-METHYL-2-PENTANONE	108-10-1		UG/L	<u> </u>	L	<u></u>		1.8
02E0053-013.001 Water Quality Control Matrix 02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260 SW-846 8260	02E0053-013 02E0053-013	NA NA	Acetone	67-64-1 71-43-2		UGAL	U	1		: .	2.9 0.27
02E0053-013.001 Water Quality Control Matrix 02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0053-013	NA NA	BENZENE, 1,2,4-TRIMETHYL	95-63-6		UG/L	-10	i			0.27
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0053-013	NA .	BENZENE, 1,3,5-TRIMETHYL-	108-67-8		UGAL	Ü	 			0.31
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0053-013	NA	BROMOBENZENE	108-88-1		UG/L	Ü	Ī		1	0.32
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0053-013	NA .	BROMOCHLOROMETHANE	74-97-5		UGAL	U	I			0.39
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260		NA	Bromodichloromethane	75-27-4		UG/L	U				0.35
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-848 8260	02E0053-013	NA .	BROMOFLUOROBENZENE	460-00-4		%REC	4			.j	ایری ۰۰۰
02E0053-013.001 Water Quality Control Matrix 02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260 SW-646 8260	02E0053-013 02E0053-013	NA NA	Bromoform Bromomethane	75-25-2 74-83-9		UGAL	12			1 :	0.46
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-848 8260		NA NA	CARBON DISULFIDE	75-15-0		UGAL	15	ļ			0.28
02E0053-013.001 Water Quality Control Matrix	VQA-A-009	SW-846 8260		NA :	Carbon tetrachloride	56-23-5		UGAL	Ü				0.35
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260		NA .	Chlorobenzene	108-90-7		UGAL	Ü	·		-1	0.24
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0053-013	NA	Chloroethane	75-00-3	2	UG/L	Ü			1 1	0.26
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260		N A	Chloroform	87-68-3		UG/L	U			1 -1	0.29
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260		NA	Chloromethane	74-87-3		UG/L	U			T	0.26
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0053-013	NA .	ds-1,2-DICHLOROETHENE	156-59-2		UG/L	<u>U</u>	ļ		-	0.33
02E0053-013,001 Water Quality Control Matrix	VOA-A-009	SW-846 8260	***************************************	NA NA	Cls-1,3-Dichloropropene	10061-01-5		UG/L	<u> </u>			- 	0.31
02E0053-013.001 Water Quality Control Matrix 02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260 SW-846 8260		NA NA	Dibromochioromethane Dibromofluoromethane	124-48-1 1868-53-7		WREC	U	 		++	0.37
02E0053-013.001 Water Quality Control Matrix	VQA-A-009	SW-846 8260		NA NA	DIBROMOMETHANE	74-95-3		UG/L	· u	 		+	0.4
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-848-8260		NA N	DICHLORODIFLUOROMETHANE	75-71-8		UG/L	lu	 			0.44
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-848-8260	02E0053-013	NA S	Ethylbenzene	100-41-4		UG/L	Ü	1		++	0.51
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-848 8260	02E0053-013	NA 1	Hexachtorobutadiene	87-68-3		UG/L	U			1	0.37
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-848 8260		NA .	ISOPROPYLBENZENE	98-82-8		UGAL	U				0.3
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-848 8260	02E0053-013	NA .	Methylene chloride	75-09-2		UGAL	U				0.86
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260	022000	NA .	n-BUTYLBENZENE	104-51-8		UG/L	U			<u> </u>	0.41
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-848 8260		NA	n-PROPYLBENZENE	103-65-1		UG/L	Ų	ļ	ļ	44-	0.33
02E0063-013.001 Water Quality Control Matrix 02E0063-013.001 Water Quality Control Matrix	VOA-A-009	SW-848 8260 -	02E0053-013 02E0053-013	NA NA	Naphthalene o-CHLOROTOLUENE	91-20-3 95-49-8		UG/L	U				0.78 0.23
02E0053-013.001 Water Quality Control Matrix 02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260 SW-846 8260		NA NA	p-CHLOROTOLUENE	108-43-4		UG/L	U	 			0.23
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-848 8260	02E0053-013	NA NA	sec-BUTYLBENZENE	135-98-8		UG/L	Ü				0.34
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0053-013	NA	Styrene	100-42-5		UGAL	Ū			++	0.28
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0053-013	NA .	TCE	79-01-6		UGAL	Ü	i i		1	0.24
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0053-013	NA	tert-BUTYLBENZENE	98-06-8		UGA.	U				0.29
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260		NA .	Tetrachloroethene	127-18-4		UGAL	U				0.27
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0053-013	NA	Toluene	108-88-3		UG/L	U	i. 1		} ;	0.26
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0053-013	NA NA	TOLUENE - D8	2037-26-5		%REC	u	ļ ļ		į. <u>!</u>	أيدن
02E0053-013.001 Water Quality Control Matrix 02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260 SW-846 8260	02E0053-013 02E0053-013	NA NA	trans-1,2-DICHLOROETHENE Trans-1,3-Dichloropropene	156-60-5 10061-02-6		UG/L	U	·			0.25
02E0053-013,001 Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0053-013	NA NA	TRICHLOROFLUOROMETHANE	75-69-4		UGAL	Ü .				0.43
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-848 8280	02E0053-013	NA .	Vinyl chloride	75-01-4		UGAL	Ü			4	0.26
02E0053-013.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260		NA .	Xylenes (total)	1330-20-7		UGAL	Ü			- -	0.73
02E0053-014.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260		NA	UNKNOWN	TIC	6.3	UGAL	IJ				
02E0053-014.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260		NA	1,1,1,2-TETRACHLOROETHANE	630-20-6		UG/L	Ü				0.28
02E0053-014.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260		NA .	1,1,1-TCA	71-55-6		UGAL	U				0.32
02E0053-014.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260	0220000 VII	NA	1,1,2,2-Tetrachioroethane	79-34-5		UG/L	U	Ь			0.5
02E0053-014.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260		NA	1,1,2-TCA	79-00-5		UG/L	<u> U </u>	ļļ		_ .	0.41
02E0053-014.001 Water Quality Control Matrix	VOA-A-009	SW-846 8260	02E0053-014	NA .	1,1,2-TRICHLOROTRIFLUOROETHANE	76-13-1	1	UGAL	:U			1 1	0.56

0.29	0.01	0.29		0.62	0.76	3 5	3.5	0.49	0.46	0.38	0.3	0.37	60.	6.37		:	1 1	5.8	0.27	0.0	0.31	0.32	0.39	0.35	970	28	0.67	93	0.24	0.26	2, 6	0.33	0.31	0.37	-	7	0.51	0.37		8:5	0.33	0.78	0.23	8	7 6	0 24	0.79	0.27	0.26	0.25	0.36	0.43
_				-							1					-	•• ·	; ;									-								-:			.1		:							 					
							:						:	:		1	•								:			, ,		* ******					:						į.			1	-			:				
_		-						-	-		-	-		 				1				~	-				-								:		!	-	-		:	 -		1					-	-		
2	2	2	ပ္	2	2	2.3	2¦=	2	2	Ξ.	⊇	2	: اد	⊃ :	2	2 =	, 3 	-	2	<u>۔</u>	⊃	⊇	>	⊇. <u>.</u>	: نړ	2 =	2 2	. <u></u>	2	! ا	2. <u>3</u>	Ξ.	2	<u></u>	<u>ا۔</u> اد	2 2	: 	<u> </u>	2	2 =	le L	2	⊋.	2	2	2 =	=	<u> </u>	⊃	() ()	اد.	Ξ
100	1 06	100	A KRE	100	100	3:0	100	2 UC/	JUG.	9) IUC	100	0	200	300		SUS.	500	1 UG/	100	- 100	1:00	100	100	Y CHI	/3116	1,00	3	1 UG/	2 06/	200	100	5	500	18 /A	2 0.67	ა <u>ი</u>) O	300	50	On	1 00	1 UG/	2		100	55.	1 UGA	1 UGA	NOO! SO	- nc	21164
134-3	Į.	3-58-6	7060-07-0	37-61-6	1	70-82-1		F12-8	¥-83-4	6-07-5	1-73-1	2-28-9	06-46-7	7-70-1	78.F	90.87.6	08-10-1		43-2	83.6	8-23-8	9-86-1	-97.5	-274	25.2	120	15-0	23.5	8-90-7	83	47.3	6-59-2	061-01-5	1.877	96-37	71.8	7.77	17-68-3	0.700	04-51-8	03-65-1	91-20-3	95-49-8	106-43-4	35-88-6	9-01-6	9-90-96	27-18-4	108-88-3	58-60-5	0061-02-6	7
75	27	35	17	10	8:		8	8	12	2	3	7	2 .	8	2	518	: =	187	E	8	의	의	7.	5	1		75	\$	9	2	2	15	5	2	72	75		97	815		5	5	8	2	2 9	100	8	12	2 5	2.0	ğ	\$
		- DICHLOROPROPENE	2 DICHLOROETHANE -D4	3-TRICHLOROBENZENE	HLOROPROPANE	A-1 nonbrobenzene	+	p-3-choropropane	MOETHANE	propare	DROBENZENE	DROPROPANE		Z-DICHLUROPROPANE	NE	4-ISOPROPYL TOLLIENE	METHYL 2-PENTANONE			12.4-TRIMETHYL	1,3,5-TRIMETHYL.	NZENE	BROMOCHLOROMETHANE	Bromodichionmethane	OCHOBENZENE	ana	RBON DISULFIDE	achorde	926			1LOROETHENE	noropropene	romochloromethane	KETHANE	ODIFLUOROMETHANE	•	outadiene	LDCNZENE	NZENE	PROPYLBENZENE		TOLUENE	TOLUENE	SENZENE		BENZENE	thene		CHLOROETHENE	chloropropene	DFLUOROMETHANE
<u>خ</u>	30	1-DICHLO	2 DICHLC	2,3-TRIC	2.3 TRIC	20.4	2008	2-Dibrom	2-DIBRO	2-Dichor	.3-DICHLOROB	.3-DICHLORO	4-0CB	Z-OICHE	HEYAND	SOPPO	METHY	cetone	Senzene	SENZENE.	SENZENE.	ROMOBE	ROMOCH	Immodicht Co. Co.	TOWOUGH OF THE PERSON OF THE P	1	ARBOND	arbon tetra	horobenze	horoethan	honoreth	S-12-DICH	3-1,3-Dict	ibromocht	BROMOA	CHLORO	thylbenzen	lexaction butadene	SUPRUPTUBER	HELITY BENZENE	PROPYL	aphthalene	<i><u>PCHLOROTOLUENE</u></i>	P-CHLOROTOLUENE	Share	TCE	ten-BUTYLBENZENE	etrachtoroe	othere	barra-1.2-Dit	rans-1,3-0	RICH! OR
INA	YZ.	NA	NA	NA	NA NA		NA NA	NA	¥	NA.	NA.	Y.	NA TOTAL TOT	NA NA	AN AN	NA	¥	NA	NA	NA.	N.	NA	Y.Y	NA	NA NA	NA	NA	NA	NA	NA NA	AN AN	NA	NA	YN.	NA	×.	NA	Y		¥2	NA NA	ž	YY.	YY.	NA NA	YN.	NA	Y.	¥2	NA	NA	¥
02E0053-014	02E0053-014	02E0053-014	02E0083-014	02E0063-014	02E0053-014	025003-014	02E0053-014	02E0053-014	02E0083-014	02E0063-014	02E0053-014	02E0063-014	02E0063-014	02E0033-014	02E0003-014	02E0053-014	02E0053-014	02E0063-014	02E0063-014	02E0053-014	02E0053-014	02E0053-014	02E0053-014	02E0063-014	0250063-014	MF0053-014	02E0053-014	02E0063-014	02E0063-014	02E0053-014	0250053014	02E0053-014	0250053-014	02E0063-014	02E0063-014	02E0053-014	02E0063-014	02E0063-014	02E0003-014	0250053-014	02E0063-014	02E0063-014	02E0053-014	02E0063-014	0250053-014	DE0063-014	02E0053-014	02E0053-014	02E0083-014	02E0063-014	02E0063-014	02E0063-014
				-		:	-	-								-								1	-					-				-					Ī													
SW-848 8260	SW-846 8280	SW-846 8280	SW-846 8280	SW-846 8280	SW-846 8280	SW-446 8290	SW-846 8260	SW-646 8260	SW-846 8260	SW-846 6260	SW-846 6260	SW-646 8260	SW-846 6260	SW-046 8260	SW-846 8260	SW-846 8260	SW-846 8260	SW-846 8260	SW-646 8260	SW-846 8280	SW-846 8260	SW-646 8260	SW-846 8260	SW-846 8260	SW-846 8260	SW-M8 6260	SW-848 6260	SW-846 8260	SW-848 6260	SW-846 8280	SW-846 8260	SW-846 8280	SW-846 8260	SW-846 6280	SW-846 8260	SW-846 8260	SW-848 8260	SW-846 8260	SW-AMB ROED	SW-846 8260	SW-846 8260	SW-848 5280	SW-846 8280	SW-848 8260	SW-946 6250	SW-846 8260	SW-646 6260	SW-646 8260	SW-648 8280	SW-846 6280	SW-846 8260	SW-846 8260
VOA-A-009		1 _ 1		VOA A 009	VOA-A 009	VOA.4-00	VOA-A-009	VOA-A-009	VOA-A-009	VOA-A-009	VOA.A-009	VOA-A-009	VOA A 009	VOA-4-003	000 T TO	VOA-A-009	VOA A 009	VOA-A-009	VOA-A-009	VOA-A-009	VOA-A-009	VOA-A-009	VOA-A-009	VOA-A-009	VOA-A-OO	VOA-A-OV	i	1 1	VOA-A-009	VOA-A-009	1		VOA-A-009	VOA-A-009	VOA-4-009	1		VOA-4-009	WAT 400	VOA 4 009	VOA-A-009	VOA-A-009	VOA-A-009	VOA-A-009	VOA A OV	VOA-4-009	1	1	VOA-4-009	1	! !	VOA-A-009
y Control Matrix	ntrol Matrix	Troi Marts	rtrol Matrix	ntrol Matrix	MOO Martin	TO Martin	troi Matri	TOO Mact	Tool Matte	ntrol Matrix	rerol Matrix	ntrol Matrix	TOO Macra	TOO MATO	the Mante	Tro Mart	troi Mart	troi Matrix	troi Matrix	rtrof Matrix	troi Matrix	troi Matrix	froi Matrix	trol Matrix	TOO MADE	troi Matric	tros Matrix	trol Matrix	trol Matrix	SO March	troi Matrix	troi Matrix	troi Matrix	froi Matrit	troi Matrix	troi Matrix	troi Matrix	froi Matrix	Trai Moth	troi Matrix	troi Matrix	troi Matrix	troi Matrix	troi Matrix	Total March	trol Matrix	trol Matrix	troi Matrix	E Maga	Tol Metric	troi Matrix	troi Mattri
Water Outly Control Matrix	Water Oustry Co.	Water Quality Co.	Water Quality Co.	Water Quality Co	Water Outliny Co	New Common	Water Out by Co.	Water Quality Co.	Water Quality Control Matrix	Water Quality Control Matrix	Water Outliny Co	Water Outly Co	Water Quality Control Matrix	S CAMPA	S C LEW	Water Outline Control Martin	Water Out By Co.	Water Quality Cor	Water Quality Control Marts	Water Ouality Co.	Water Ously Co.	Water Quality Control Matrix	Water Quality Co.	Water Quality Control Matrix	Water Outline Co.	Water Oughy Co.	Water Oually Co.	Water Oualty Cor	Water Quality Co.	Water Outsity Co	Water Outline Co.	Water Quality Cor.	Water Quality Cor	Water Quality Control Matrix	S CARROLL N	Water Quality Con	Water Quality Cor	Water Quality Control Matrix		Water Quality Con	Water Quality Control Matrix	Water Custry Con	Water Quality Con.	Weter Quality Control Matrix		Water Quality Control Mater	Water Quality Con	Water Quality Control Matrix	Water Quality Control Matrix	Vater Guality Con	Water Quality Control Matrix	Vater Quality Con
				- (- 1		1	1	i	- 1	- 1	- 1	!	i	ı	1		1	1	1	ı	- 1	- 1	- 1	•	1	1	: 1	٠,		t	1	- 1	i	1		1	- 1	1				lł	- 1	ı	1	l	il	-	Г		
02E0063-014.001	0003-0	E0063-0	£0083-0	02E0063-014.00	2003	0250053014 001	02E0063-014.00	F0053-0	02E0053-014.001	E0063-0	02E0063-014.00	02E0063-014.001	20097	WEU053-014.00	10003	0250053-014-001	02E0063-014.001	£0063-01	02E0053-014.001	02E0063-014.001	02E0053-014.001	60030	02E0053-014.00	02E0083-014.001	10003	5003	£0063-01	02E0053-014.001	E0063-01	0000	E0063-01	E0053-01	£0063-01	02E0063-014.001	E063-01	02E0053-014,001	E0063-01	E0083-01		02E0063-014.001	E0063-01	E0083-01	02E0063-014,001	QZE0063-014.00	S S S S S S S S S S S S S S S S S S S	02E0063-014.001	E0063-01	02E0063-014.001	02E0053-014.00	E0053-01	02E0063-014.001	02E0063-014.001



Ekaletikin	Marine	160	2000 1000 1000 1000 1000 1000 1000 1000	GED SAMPAUU	yoekion	estalajoi =			r Unite	9-12 [24]	701			
02E0015-001.001	Soil	PEP-A-007	SW-846 8082	02E0015-001	BT39-A001	AROCLOR-1016	12674-11-2	75	UG/KG	11	V	2000	W.C.	3.7
02E0015-001.001	Soil	PEP-A-007	SW-846 8082	02E0015-001	BT39-A001	AROCLOR-1221	11104-28-2		UG/KG	U	lv	 		7.4
02E0015-001.001	Soil	PEP-A-007	SW-846 8082	02E0015-001	BT39-A001	AROCLOR-1232	11141-16-5		UG/KG	u	·			9.3
02E0015-001.001	Soil	PEP-A-007	SW-846 8082	02E0015-001	BT39-A001	AROCLOR-1242	53469-21-9		UG/KG	lu	v		<u>}</u>	
02E0015-001.001	Soil	PEP-A-007	SW-846 8082	02E0015-001	BT39-A001	AROCLOR-1248	12672-29-6		UG/KG	U	lv	 		6.5
02E0015-001.001	Soil	PEP-A-007	SW-846 8082	02E0015-001	BT39-A001	AROCLOR-1254	11097-69-1		UG/KG	J	l v			6.5
02E0015-001.001	Soil	PEP-A-007	SW-846 8082	02E0015-001	BT39-A001	AROCLOR-1260	11096-82-5	*******	UG/KG	ال	v	<u> </u>	• • • • • • • • • • • • • • • • • • • •	5.2
02E0015-001.001	Soil	PEP-A-007	SW-846 8082	02E0015-001	BT39-A001	DECACHLOROBIPHENYL	2051-24-3		%REC	-			i	ر <u>- ت</u> تــــــــــــــــــــــــــــــــــ
02E0015-001.001	Soil	PEP-A-007	SW-846 8082	02E0015-001	BT39-A001	TETRACHLORO-M-XYLENE	877-09-8	82	%REC	İ		i —	į. !	:
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	1234678-HPCDD	35822-46-9	11	PG/G	В	v			0
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	1234678-HPCDD	35822-46-9	74	%REC	В	-		+	:
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	1234678-HPCDD	35822-46-9		%REC	В	1			• • •
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	1234678-HPCDF	67562-39-4		PG/G	В	v	1		o.
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	1234678-HPCDF	67562-39-4	75	%REC	В	i			
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	1234678-HPCDF	67562-39-4	76	%REC	В				
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	123478-HXCDD	39227-28-6	0.23	PG/G	BJ	JB	107		0.
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	123478-HXCDD	39227-28-6	77	%REC	В				
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	123478-HXCDF	70648-26-9	0.68	PG/G	BJ	JB	107		0
02E0015-001.002	Soil	TSK-A-003	SW-848 8290	02E0015-001	BT39-A001	123478-HXCDF	70648-26-9	79	%REC	В			i	
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	123478-HXCDF	70648-26-9	80	%REC	В			:	
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	1234789-HPCDF	55673-89-7	0.15	PG/G	U	v		;	0
02E0015-001.002	Soil	TSX-A-003	SW-846 8290	02E0015-001	BT39-A001	1234789-HPCDF	55673-89-7	72	%REC	В				
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	1234789-HPCDF	55673-89-7	78	%REC	В				
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	123678-HXCDD	57653-85-7	0.56	PG/G	J	v			0
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	123678-HXCDD	57653-85-7	78	%REC					
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	123678-HXCDD	57653-85-7	81	%REC					
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	123678-HXCDF	57117-44-9	0.9	PG/G	BJ	JB	107	1	0
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	123678-HXCDF	57117-44-9	80	%REC	В				
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	123678-HXCDF	57117-44-9	82	%REC	В	i			
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	12378-PECDD	40321-76-4	0.56	PG/G	J	v			0
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	12378-PECDD	40321-76-4	80	%REC					
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	12378-PECDD	40321-76-4	82	%REC					\neg
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001 `	BT39-A001	12378-PECDF	57117-41-6	0.79	PG/G	J	v			0
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	12378-PECDF	57117-41-6	82	%REC					
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	12378-PECDF	57117-41-6	85	%REC					
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	123789-HXCDD	19408-74-3	0.45	PG/G	J	٧			0



eneralism	Major		West reside	१५५५ मुल्लाहरू अवस्थित	ાલુકાએ ં છે <i>ે</i>	ZAMANIE	(A):[1](0)	(र्वेट्रेश्व)	වෙන්වල මාධ්රම	11.45 (1.65)	《数数》	7,1, 1 C 18,E	الماليات	ن پائ
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	123789-HXCDD	19408-74-3		%REC					
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	123789-HXCDD	19408-74-3	78	%REC					
02E0015-001.002	Soil	TSK-A-003	SW-848 8290	02E0015-001	BT39-A001	123789-HXCDF	72918-21-9	0.095	PG/G	U	v			. 0
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	123789-HXCDF	72918-21-9	80	%REC	В				
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	123789-HXCDF	72918-21-9	81	%REC	В				
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	234678-HXCDF	60851-34-5	0.34	PG/G	BJ	v			0
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	234678-HXCDF	60851-34-5	78	%REC	В				
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	234678-HXCDF	60851-34-5	84	%REC	В				
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	23478-PECDF	57117-31-4	0.56	PG/G	J	V			0
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	23478-PECDF	57117-31-4	79	%REC					
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	23478-PECDF	57117-31-4	80	%REC					
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	2378-TCDF	51207-31-9	3.6	PG/G		٧			0
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	2378-TCDF	51207-31-9	82	%REC]
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	2378-TCDF	51207-31-9	88	%REC					<u> </u>
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	DIOXIN	1746-01-6	3.5	PG/G		٧			0
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	DIOXIN	1746-01-6	81	%REC					
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	DIOXIN	1746-01-6	82	%REC]
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	OCDD	3268-87-9	74	%REC	В				
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	OCDD	3268-87-9	. 80	%REC	В	İ			;
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	OCDD	3268-87-9	84	PG/G	В	v			0
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	OCDF	39001-02-0	5.1	PG/G	ВЈ	JB	107		. oj
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	OCDF	39001-02-0	76	%REC	В				
02E0015-001.002	Soil	TSK-A-003	SW-846 8290	02E0015-001	BT39-A001	OCDF	39001-02-0	77	%REC	В				
02E0015-002.001	Soil	PEP-A-007	SW-846 8082	02E0015-002	BT39-A002	AROCLOR-1016	12674-11-2	39	UG/KG	U	٧			4
02E0015-002.001	Soil	PEP-A-007	SW-846 8082	02E0015-002	BT39-A002	AROCLOR-1221	11104-28-2	39	UG/KG	U	V			8.2
02E0015-002.001	Soil	PEP-A-007	SW-846 8082	02E0015-002	BT39-A002	AROCLOR-1232	11141-16-5	39	UG/KG	U	V			10
02E0015-002.001	Soil	PEP-A-007	SW-846 8082	02E0015-002	BT39-A002	AROCLOR-1242	53469-21-9	39	UG/KG	U	v	,		.9.9
02E0015-002.001	Soil	PEP-A-007	SW-846 8082	02E0015-002	BT39-A002	AROCLOR-1248	12672-29-6	39	UG/KG	U	٧			7.1
02E0015-002.001	Soil	PEP-A-007	SW-846 8082	02E0015-002	BT39-A002	AROCLOR-1254	11097-69-1	39	UG/KG	U	v			7.2
02E0015-002.001	Soil	PEP-A-007	SW-846 8082	02E0015-002	BT39-A002	AROCLOR-1260	11096-82-5	13	UG/KG	J	٧			5.7
02E0015-002.001	Soil	PEP-A-007	SW-846 8082	02E0015-002	BT39-A002	DECACHLOROBIPHENYL	2051-24-3	106	%REC					
02E0015-002.001	Soil	PEP-A-007	SW-846 8082	02E0015-002	BT39-A002	TETRACHLORO-M-XYLENE	877-09-8	69	%REC					
02E0015-002.002	Soil	TSK-A-003	SW-846 8290	02E0015-002	BT39-A002	1234678-HPCDD	35822-46-9	14	PG/G	В	٧			0
02E0015-002.002	Soil	TSK-A-003	SW-846 8290	02E0015-002	BT39-A002	1234678-HPCDF	67562-39-4	3.8	PG/G	BJ	V			0
02E0015-002.002	Soil	TSK-A-003	SW-846 8290	02E0015-002	BT39-A002	123478-HXCDD	39227-28-6	0.22	PG/G	BJ	JB	107		0
02E0015-002.002	Soil	TSK-A-003	SW-846 8290	02E0015-002	BT39-A002	123478-HXCDF	70648-26-9	0.45	PG/G	BJ	JB	107		0





in the second of the second	WE 614	43.	Mark (Cold)	Earbigni.	1500 (10 0).	MANIE	offices.	RESU4		(5) (7)	SUL.		المقالة	, e
02E0015-002.002	Soil	TSK-A-003	SW-846 8290	02E0015-002	BT39-A002	1234789-HPCDF	55673-89-7	0.34	PG/G	ВЈ	JB	107		0
02E0015-002.002	Soil	TSK-A-003	SW-846 8290	02E0015-002	BT39-A002	123678-HXCDD	57653-85-7	0.56	PG/G	J	v			0
02E0015-002.002	Soil	TSK-A-003	SW-846 8290	02E0015-002	BT39-A002	123678-HXCDF	57117-44-9	0.67	PG/G	BJ	JB	107		0.
02E0015-002.002	Soil	TSK-A-003	SW-846 8290	02E0015-002	BT39-A002	12378-PECDD	40321-76-4	0.45	PG/G	J	v			0
02E0015-002.002	Soil	TSK-A-003	SW-846 8290	02E0015-002	BT39-A002	12378-PECDF	57117-41-6	0.14	PG/G	U	v			0
02E0015-002.002	Soil	TSK-A-003	SW-846 8290	02E0015-002	BT39-A002	123789-HXCDD	19408-74-3	0.79	PG/G	J	V			0.
02E0015-002.002	Soil	TSK-A-003	SW-846 8290	02E0015-002	BT39-A002	123789-HXCDF	72918-21-9	0.22	PG/G	BJ	JB	107		. o'
02E0015-002.002	Soil	TSK-A-003	SW-846 8290	02E0015-002	BT39-A002	234678-HXCDF	60851-34-5	0.34	PG/G	BJ	V			0
02E0015-002.002	Soil	TSK-A-003	SW-846 8290	02E0015-002	BT39-A002	23478-PECDF	57117-31-4	0.14	PG/G	U	v			0
02E0015-002.002	Soil	TSK-A-003	SW-846 8290	02E0015-002	BT39-A002	2378-TCDF	51207-31-9	0.79	PG/G	J	v			0
02E0015-002.002	Soil	TSK-A-003	SW-846 8290	02E0015-002	BT39-A002	DIOXIN	1746-01-6	1.6	PG/G		v			0
02E0015-002.002	Soil	TSK-A-003	SW-846 8290	02E0015-002	BT39-A002	OCDD	3268-87-9	76	PG/G	В	V			0
02E0015-002.002	Soil	TSK-A-003	SW-846 8290	02E0015-002	BT39-A002	OCDF	39001-02-0	5.5	PG/G	BJ	JB	107		0
02E0015-003.001	Soil	PEP-A-007	SW-846 8082	02E0015-003	BT39-A003	AROCLOR-1016	12674-11-2	36	UG/KG	U	v			3.8
02E0015-003.001	Soil	PEP-A-007	SW-846 8082	02E0015-003	BT39-A003	AROCLOR-1221	11104-28-2	36	UG/KG	U	V			7.6
02E0015-003.001	Soil	PEP-A-007	SW-846 8082	02E0015-003	BT39-A003	AROCLOR-1232	11141-16-5	. 36	UG/KG	U	v			9.5
02E0015-003.001	Soil	PEP-A-007	SW-846 8082	02E0015-003	BT39-A003	AROCLOR-1242	53469-21-9	36	UG/KG	U	v			9.2
02E0015-003.001	Soil	PEP-A-007	SW-846 8082	02E0015-003	BT39-A003	AROCLOR-1248	12672-29-6	42	UG/KG		V		· ;	6.7
02E0015-003.001	Soil	PEP-A-007	SW-846 8082	02E0015-003	BT39-A003	AROCLOR-1254	11097-69-1	30	UG/KG	J	v			6.7
02E0015-003.001	Soil	PEP-A-007	SW-846 8082	02E0015-003	BT39-A003	AROCLOR-1260	11096-82-5	36	UG/KG	U	v			5.3
02E0015-003.001	Soil	PEP-A-007	SW-846 8082	02E0015-003	BT39-A003	DÉCACHLOROBIPHENYL	2051-24-3	106	%REC					<u> </u>
02E0015-003.001	Soil	PEP-A-007	SW-846 8082	.02E0015-003	BT39-A003	TETRACHLORO-M-XYLENE	877-09-8	85	%REC					
02E0015-003.002	Soil	TSK-A-003	SW-846 8290	02E0015-003	ВТЗЎ-А003	1234678-HPCDD	35822-46-9	. 33	PG/G	В	v			0
02E0015-003.002	Soil	TSK-A-003	SW-846 8290	02E0015-003	BT39-A003	1234678-HPCDF	67562-39-4	8.7	PG/G	В	٧			0
02E0015-003.002	Soil	TSK-A-003	SW-846 8290	02E0015-003	BT39-A003	123478-HXCDD	39227-28-6	0.47	PG/G	BJ	JB	107		0
02E0015-003.002	Soil	TSK-A-003	SW-846 8290	02E0015-003	BT39-A003	123478-HXCDF	70648-26-9	1.5	PG/G	BJ	JB	107		0
02E0015-003.002	Soil	TSK-A-003	SW-846 8290	02E0015-003	BT39-A003	1234789-HPCDF	55673-89-7	0.27	PG/G	U	v			0
02E0015-003.002	Soil	TSK-A-003	SW-846 8290	02E0015-003	BT39-A003	123678-HXCDD	57653-85-7	1.2	PG/G	J	v			0
02E0015-003.002	Soil	TSK-A-003	SW-846 8290	02E0015-003	BT39-A003	123678-HXCDF	57117-44-9	1.2	PG/G	BJ	JB	107		0
02E0015-003.002	Soil	TSK-A-003	SW-846 8290	02E0015-003	BT39-A003 .	12378-PECDD	40321-76-4	0.82	PG/G	J	v			0
02E0015-003.002	Soil.	TSK-A-003	SW-846 8290	02E0015-003	BT39-A003	12378-PECDF	57117-41-6	4.3	PG/G	J	v			0
02E0015-003.002	Soil	TSK-A-003	SW-846 8290	02E0015-003	BT39-A003	123789-HXCDD	19408-74-3	1.1	PG/G	J	v			0
02E0015-003.002	Soil	TSK-A-003	SW-846 8290	02E0015-003	BT39-A003	123789-HXCDF	72918-21-9	0.15	PG/G	U	٧			0
02E0015-003.002	Soil	TSK-A-003	SW-846 8290	02E0015-003	BT39-A003	234678-HXCDF	60851-34-5	0.82	PG/G	BJ	٧			0
02E0015-003.002	Soil	TSK-A-003	SW-846 8290	02E0015-003	BT39-A003	23478-PECDF	57117-31-4	1.9	PG/G	J	٧			0
02E0015-003.002	Soil	TSK-A-003	SW-846 8290	02E0015-003	BT39-A003	2378-TCDF	51207-31-9	12	PG/G		v			0





Albake dam	i delátic	'ક હ	MERICONE MINE	CHEEL TO THE	ieo iion	ANAISME.	(evillo)	i estica	idezi aile	5.45 (3.45)	(X) (20)		1.01	
02E0015-003.002	Soil	TSK-A-003	SW-846 8290	02E0015-003	BT39-A003	DIOXIN	1746-01-6	6.6	PG/G		٧	2.00	Mary Will	0
02E0015-003.002	Soil	TSK-A-003	SW-846 8290	02E0015-003	BT39-A003	OCDD	3268-87-9	290	PG/G	В	v		·	0
02E0015-003.002	Soil	TSK-A-003	SW-846 8290	02E0015-003	BT39-A003	OCDF	39001-02-0	11	PG/G	BJ	v			0
02E0015-004.001	Soil	PEP-A-007	SW-846 8082	02E0015-004	BT39-A004	AROCLOR-1016	12674-11-2	36	UG/KG	υ	v			3.7
02E0015-004.001	Soil	PEP-A-007	SW-846 8082	02E0015-004	BT39-A004	AROCLOR-1221	11104-28-2	36	UG/KG	U	v			7.5
02E0015-004.001	Soil	PEP-A-007	SW-846 8082	02E0015-004	BT39-A004	AROCLOR-1232	11141-16-5	36	UG/KG	U	v			9.4
02E0015-004.001	Soil	PEP-A-007	SW-846 8082	02E0015-004	BT39-A004	AROCLOR-1242	53469-21-9	36	UG/KG	U	v			9.1
02E0015-004.001	Soil	PEP-A-007	SW-846 8082	02E0015-004	BT39-A004	AROCLOR-1248	12672-29-6	36	UG/KG	U	v			6.6
02E0015-004.001	Soil	PEP-A-007	SW-846 8082	02E0015-004	BT39-A004	AROCLOR-1254	11097-69-1	36	UG/KG	U	٧		i	6.6
02E0015-004.001	Soil	PEP-A-007	SW-846 8082	02E0015-004	BT39-A004	AROCLOR-1260	11096-82-5	36	UG/KG	U	٧		i	5.2
02E0015-004.001	Soil	PEP-A-007	SW-846 8082	02E0015-004	BT39-A004	DECACHLOROBIPHENYL	2051-24-3	87	%REC				-	
02E0015-004.001	Soil	PEP-A-007	SW-846 8082	02E0015-004	BT39-A004	TETRACHLORO-M-XYLENE	877-09-8	78	%REC					
02E0015-004.002	Soil	TSK-A-003	SW-846 8290	02E0015-004	BT39-A004	1234678-HPCDD	35822-46-9	2.8	PG/G	ВЈ	٧			0
02E0015-004.002	Soil	TSK-A-003	SW-846 8290	02E0015-004	BT39-A004	1234678-HPCDF	67562-39-4	1.4	PG/G	ву	JB	107		o
02E0015-004.002	Soil	TSK-A-003	SW-846 8290	02E0015-004	BT39-A004	123478-HXCDD	39227-28-6	0.25	PG/G	U	٧			0
02E0015-004.002	Soil	TSK-A-003	SW-846 8290	02E0015-004	BT39-A004	123478-HXCDF	70648-26-9	0.12	PG/G	U	٧			0
02E0015-004.002	Soil	TSK-A-003	SW-846 8290	02E0015-004	BT39-A004	1234789-HPCDF	55673-89-7	0.35	PG/G	U	٧			0
02E0015-004.002	Soil	TSK-A-003	SW-846 8290	02E0015-004	BT39-A004	123678-HXCDD	57653-85-7	0.23	PG/G	υ	٧			0
02E0015-004.002	Soil	TSK-A-003	SW-846 8290	02E0015-004	BT39-A004	123678-HXCDF	57117-44-9	0.11	PG/G	U	٧		i	0
02E0015-004.002	Soil	TSK-A-003	SW-846 8290	02E0015-004	BT39-A004	12378-PECDD	40321-76-4	0.25	PG/G	υ	٧			0
02E0015-004.002	Soil	TSK-A-003	SW-846 8290	02E0015-004	BT39-A004	12378-PECDF	57117-41-6	0.23	PG/G	U	٧			o
02E0015-004.002	Soil	TSK-A-003	SW-846 8290	02E0015-004	BT39-A004	123789-HXCDD	19408-74-3	0.24	PG/G	U	٧			0
02E0015-004.002	Soil	TSK-A-003	SW-846 8290	02E0015-004	BT39-A004	123789-HXCDF	72918-21-9	0.14	PG/G	υ	v			0
02E0015-004.002	Soil	TSK-A-003	SW-846 8290	02E0015-004	BT39-A004	234678-HXCDF	60851-34-5	0.13	PG/G	U .	٧		i	0
02E0015-004.002	Soil	TSK-A-003	SW-846 8290	02E0015-004	BT39-A004	23478-PECDF	57117-31-4	0.22	PG/G	U	٧			0
02E0015-004.002	Soil	TSK-A-003	SW-846 8290	02E0015-004	BT39-A004	2378-TCDF	51207-31-9	0.76	PG/G	J	٧			0
02E0015-004.002	Soil	TSK-A-003	SW-846 8290	02E0015-004	BT39-A004	DIOXIN	1746-01-6	1.6	PG/G		٧			0,
02E0015-004.002	Soil	TSK-A-003	SW-846 8290	02E0015-004	BT39-A004	OCDD	3268-87-9	18	PG/G	В	٧			0
02E0015-004.002	Soil	TSK-A-003	SW-846 8290	02E0015-004	BT39-A004	OCDF	39001-02-0	2	PG/G	В	JB	107		0
02E0015-005.001	Soil	PEP-A-007	SW-846 8082	02E0015-005	BT38-A001	AROCLOR-1016	12674-11-2	35	UG/KG	U	٧			3.6
02E0015-005.001	Soil	PEP-A-007	SW-846 8082	02E0015-005	BT38-A001	AROCLOR-1221	11104-28-2	35	UG/KG	U	٧			7.4
02E0015-005.001	Soil	PEP-A-007	SW-846 8082	02E0015-005	BT38-A001	AROCLOR-1232	11141-16-5	35	UG/KG	U	V			9.2
02E0015-005.001	Soil	PEP-A-007	SW-846 8082	02E0015-005	BT38-A001	AROCLOR-1242	53469-21-9	35	UG/KG	υ	v			8.9
02E0015-005.001	Soil	PEP-A-007	SW-846 8082	02E0015-005	BT38-A001	AROCLOR-1248	12672-29-6	32	UG/KG	J	V			6.4
02E0015-005.001	Soil	PEP-A-007	SW-846 8082	02E0015-005	BT38-A001	AROCLOR-1254	11097-69-1	29	UG/KG	J	٧			6.5
02E0015-005.001	Soit	PEP-A-007	SW-846 8082	02E0015-005	BT38-A001	AROCLOR-1260	11096-82-5	17	UG/KG	J	v			5.1



			MENICOE MENICOE	SMS (INTE	ulist delik		ie Grio		idesvin cillio	10.45	V/A:	1.		N.
CONTRACTOR OF THE CONTRACTOR O	(Alegae	SEC. A CO.		THE RESERVE AND ADDRESS.	TO AND	DECACH OPONIDUENCE	No.	RESULT		MONU	GO.	Car.	PADO I	831
02E0015-005.001	Soil	PEP-A-007	SW-846 8082 SW-846 8082	02E0015-005	BT38-A001 BT38-A001	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	2051-24-3 877-09-8	 	%REC	 				- {
<u> </u>	Soil		 		BT38-A001	1234678-HPCDD	35822-46-9	 	PG/G	В	v			
02E0015-005.002	Soil	TSK-A-003	SW-846 8290	02E0015-005				 	PG/G	В	V	 		0
02E0015-005.002	Soil	TSK-A-003	SW-846 8290	02E0015-005	BT38-A001	1234678-HPCDF	67562-39-4	 		i	V			0
02E0015-005.002	Soil	TSK-A-003	SW-846 8290	02E0015-005	BT38-A001	123478-HXCDD	39227-28-6	i	PG/G	U		107		0:
02E0015-005.002	Soil	TSK-A-003	SW-846 8290		BT38-A001	123478-HXCDF	70648-26-9	<u> </u>	PG/G	BJ	JB	107		01
02E0015-005.002	Soil	TSK-A-003	SW-846 8290		BT38-A001	1234789-HPCDF	55673-89-7	i	PG/G	U	V	 		0;
02E0015-005.002	Soil	TSK-A-003	SW-846 8290	02E0015-005	BT38-A001	123678-HXCDD	57653-85-7		PG/G	J	V			0
02E0015-005.002	Soil	TSK-A-003	SW-846 8290	02E0015-005	BT38-A001	123678-HXCDF	57117-44-9	ļ	PG/G	BJ	JB	107		0;
02E0015-005.002	Soil	TSK-A-003	SW-846 8290	02E0015-005	BT38-A001	12378-PECDD	40321-76-4		PG/G	J.	V	!		.0.
02E0015-005.002	Soil	TSK-A-003	SW-846 8290		BT38-A001	12378-PECDF	57117-41-6	†	PG/G	J	V	ļ :		01
02E0015-005.002	Soil	TSK-A-003	SW-846 8290	02E0015-005	BT38-A001	123789-HXCDD	19408-74-3		PG/G	U	<u>v</u>	<u></u>		0:
02E0015-005.002	Soil	TSK-A-003	SW-846 8290	02E0015-005	BT38-A001	123789-HXCDF	72918-21-9	0.16	PG/G	U	V	ļ		0
02E0015-005.002	Soil	TSK-A-003	SW-846 8290	02E0015-005	BT38-A001	234678-HXCDF	60851-34-5	0.43	PG/G	BJ	V	ļ <u>!</u>		0;
02E0015-005.002	Soil	TSK-A-003	SW-846 8290	02E0015-005	BT38-A001		57117-31-4	<u> </u>	PG/G	J	٧	ļi		-0
02E0015-005.002	Soil	TSK-A-003	SW-846 8290	02E0015-005	BT38-A001	2378-TCDF	51207-31-9	3.8	PG/G	ļ	V		!	0
02E0015-005.002	Soil	TSK-A-003	SW-846 8290	02E0015-005	BT38-A001	DIOXIN	1746-01-6	5.6	PG/G	<u> </u>	٧	 		0
02E0015-005.002	Soil	TSK-A-003	SW-846 8290	02E0015-005	BT38-A001	OCDD	3268-87-9	180	PG/G	В	V	ļ	<u></u>	<u>o</u> :
02E0015-005.002	Soil	TSK-A-003	SW-846 8290	02E0015-005	BT38-A001	OCDF	39001-02-0	8.9	PG/G	BJ	V	ļi		_ 0
02E0015-006.001	Soil	PEP-A-007	SW-846 8082	02E0015-006	BT38-A002	AROCLOR-1016	12674-11-2	19	UG/KG	j,	V		: }.	3.6
02E0015-006.001	Soil	PEP-A-007	SW-846 8082	02E0015-006	BT38-A002	AROCLOR-1221	11104-28-2	35	UG/KG	U	٧		i.	7.3
02E0015-006.001	Soil	PEP-A-007	SW-846 8082	02E0015-006	BT38-A002	AROCLOR-1232	11141-16-5	35	UG/KG	U	V			9.1
02E0015-006.001	Soil	PEP-A-007	SW-846 8082	02E0015-006	BT38-A002	AROCLOR-1242	53469-21-9	35	UG/KG	u	v			8.8
02E0015-006.001	Soil	PEP-A-007	SW-846 8082	02E0015-006	BT38-A002	AROCLOR-1248	12672-29-6	35	UG/KG	<u></u>	٧	Li	i	6.4
02E0015-006.001	Soil	PEP-A-007	SW-846 8082	02E0015-006	BT38-A002	AROCLOR-1254	11097-69-1	35	UG/KG	U	v			6.4
02E0015-006.001	Soil	PEP-A-007	SW-846 8082	02E0015-006	BT38-A002	AROCLOR-1260	11096-82-5	35	UG/KG	U	UJ	141		5.1
02E0015-006.001	Soil	PEP-A-007	SW-846 8082	02E0015-006	BT38-A002	DECACHLOROBIPHENYL	2051-24-3	62	%REC				i.	
02E0015-006.001	Soil	PEP-A-007	SW-846 8082	02E0015-006	BT38-A002	TETRACHLORO-M-XYLENE	877-09-8	61	%REC					
02E0015-006.002	Soil	TSK-A-003	SW-846 8290	02E0015-006	BT38-A002	1234678-HPCDD	35822-46-9	13	PG/G	В	v			٥
02E0015-006.002	Soil	TSK-A-003	SW-846 8290	02E0015-006	BT38-A002	1234678-HPCDF	67562-39-4	3.5	PG/G	BJ	V .	ĺ!	į	o;
02E0015-006.002	Soil	TSK-A-003	SW-846 8290	02E0015-006	BT38-A002	123478-HXCDD	39227-28-6	0.38	PG/G	U	٧			0
02E0015-006.002	Soil	TSK-A-003	SW-846 8290	02E0015-006	BT38-A002	123478-HXCDF	70648-26-9	0.53	P.G/G	BJ	JB	107		0
02E0015-006.002	Soil	TSK-A-003	SW-846 8290	02E0015-006	BT38-A002	1234789-HPCDF	55673-89-7	0.51	PG/G	U	v			0
02E0015-006.002	Soil	TSK-A-003	SW-846 8290	02E0015-006	BT38-A002	123678-HXCDD	57653-85-7	0.84	PG/G	J	v			0
02E0015-006.002	Soil	TSK-A-003	SW-846 8290	02E0015-006	BT38-A002	123678-HXCDF	57117-44-9	0.53	PG/G	BJ	٧			0
02E0015-006.002	Soil	TSK-A-003	SW-846 8290	02E0015-006	BT38-A002	12378-PECDD	40321-76-4	0.63	PG/G	J	٧			0





	Maible		Allanda -	SAME KOM	14.00 44 (0) 10	CONTRACTOR OF			HESOTI ONLINE		56.70 47.71	VAL.		
02E0015-006.002	Soil	TSK-A-003	SW-846 8290		BT38-A002	12378-PECDF	57117-41-6	0.3	PG/G	U	V		1	0
02E0015-006.002	Soil	TSK-A-003	SW-846 8290	02E0015-006	BT38-A002	123789-HXCDD	19408-74-3	0.63	PG/G	J	v			0
02E0015-006.002	Soil	TSK-A-003	SW-846 8290	02E0015-006	BT38-A002	123789-HXCDF	72918-21-9	0.26	PG/G	U	٧			0
02E0015-006.002	Soil	TSK-A-003	SW-846 8290	02E0015-006	BT38-A002	234678-HXCDF	60851-34-5	0.23	PG/G	U	٧			0
02E0015-006.002	Soll	TSK-A-003	SW-846 8290	02E0015-006	BT38-A002	23478-PECDF	57117-31-4	0.42	PG/G	j	٧			0
02E0015-006.002	Soil	TSK-A-003	SW-846 8290	02E0015-006	BT38-A002	2378-TCDF	51207-31-9	2.6	PG/G		v			0
02E0015-006.002	Soil	TSK-A-003	SW-846 8290	02E0015-006	BT38-A002	DIOXIN	1746-01-6	3.5	PG/G	<u> </u>	V			. 0
02E0015-006.002	Soil	TSK-A-003	SW-846 8290	02E0015-006	BT38-A002	OCDD	3268-87-9	88	PG/G	В	V			0
02E0015-006.002	Soil	TSK-A-003	SW-846 8290	02E0015-006	BT38-A002	OCDF	39001-02-0	16	PG/G	В	v		<u>.</u>	0
02E0015-007.001	Soil	PEP-A-007	SW-846 8082	02E0015-007	BT38-A002	AROCLOR-1016	12674-11-2	13	UG/KG	J	v		i	3.6
02E0015-007.001	Soil	PEP-A-007	SW-846 8082	02E0015-007	BT38-A002	AROCLOR-1221	11104-28-2	35	UG/KG	U	v		· · · · · · · · · · · · · · · · · · ·	7.4
02E0015-007.001	Soil	PEP-A-007	SW-846 8082	02E0015-007	BT38-A002	AROCLOR-1232	11141-16-5	35	UG/KG	U	V		<u> </u>	9.3
02E0015-007.001	Soil	PEP-A-007	SW-846 8082	02E0015-007	BT38-A002	AROCLOR-1242	53469-21-9	23	UG/KG	J	v			9
02E0015-007.001	Soil	PEP-A-007	SW-846 8082	02E0015-007	BT38-A002	AROCLOR-1248	12672-29-6	17	UG/KG	J	V			6.5
02E0015-007.001	Soil	PEP-A-007	SW-846 8082	02E0015-007	BT38-A002	AROCLOR-1254	11097-69-1	6.9	UG/KG	J	V			6.5
02E0015-007.001	Soil	PEP-A-007	SW-846 8082	02E0015-007	BT38-A002	AROCLOR-1260	11096-82-5	35	UG/KG	U ,	υJ	141		5.1
02E0015-007.001	Soil	PEP-A-007	SW-846 8082	02E0015-007	BT38-A002	DECACHLOROBIPHENYL	2051-24-3	65	%REC					
02E0015-007.001	Soil	PEP-A-007	SW-846 8082	02E0015-007	BT38-A002	TETRACHLORO-M-XYLENE	877-09-8	63	%REC	<u> </u>		<u> </u>	ļļ	
02E0015-007.002	Soil	TSK-A-003	SW-846 8290	02E0015-007	BT38-A002	1234678-HPCDD	35822-46-9	8.5	PG/G	В	V	<u> </u>		0
02E0015-007.002	Soil	TSK-A-003	SW-846 8290	02E0015-007	BT38-A002	1234678-HPCDF	67562-39-4	3.4	PG/G	вл	V	ļ		0
02E0015-007.002	Soil	TSK-A-003	SW-846 8290	02E0015-007	BT38-A002	123478-HXCDD	39227-28-6	0.26	PG/G	U	V		<u> </u>	0
02E0015-007.002	Soil	TSK-A-003	SW-846 8290	02E0015-007	BT38-A002	123478-HXCDF	70648-26-9	0.67	PG/G	BJ	JB	107		0
02E0015-007.002	Soil	TSK-A-003	SW-846 8290	02E0015-007	BT38-A002	1234789-HPCDF	55673-89-7	0.32	PG/G	U	V			0
02E0015-007.002	Soil	TSK-A-003	SW-846 8290	02E0015-007	BT38-A002	123678-HXCDD	57653-85-7	0.67	PG/G	J	V	<u> </u>	Li	0
02E0015-007.002	Soil	TSK-A-003	SW-846 8290	02E0015-007	BT38-A002	123678-HXCDF	57117-44-9	0.55	PG/G .	вл	JB	107		0
02E0015-007.002	Soil	TSK-A-003	SW-846 8290	02E0015-007	BT38-A002	12378-PECDD	40321-76-4	0.67	PG/G	J	v			0
02E0015-007.002	Soil	TSK-A-003	SW-846 8290	02E0015-007	BT38-A002	12378-PECDF	57117-41-6	0.89	PG/G	J	v			0
02E0015-007.002	Soil	TSK-A-003	SW-846 8290	02E0015-007	BT38-A002	123789-HXCDD	19408-74-3	0.67	PG/G	J .	V			0
02E0015-007.002	Soil	TSK-A-003	SW-846 8290	02E0015-007	BT38-A002	123789-HXCDF	72918-21-9	0.18	PG/G	U	V		<u> </u>	0
02E0015-007.002	Soil	TSK-A-003	SW-846 8290	02E0015-007	BT38-A002	234678-HXCDF	60851-34-5	0.44	PG/G	BJ	v	<u> </u>		0
02E0015-007.002	Soil	TSK-A-003	SW-846 8290	02E0015-007	BT38-A002	23478-PECDF	57117-31-4	0.44	PG/G	J	v			0
02E0015-007.002	Soil	TSK-A-003	SW-846 8290	02E0015-007	BT38-A002	2378-TCDF	51207-31-9	4.2	PG/G		v	<u> </u>	<u> </u>	0
02E0015-007.002	Soil	TSK-A-003	SW-846 8290	02E0015-007	BT38-A002	DIOXIN	1746-01-6	6.8	PG/G		V	ļ		0
02E0015-007.002	Soil	TSK-A-003	SW-846 8290	02E0015-007	BT38-A002	OCDD	3268-87-9	57	PG/G	В	V		<u> </u>	0
02E0015-007.002	Soil	TSK-A-003	SW-846 8290	02E0015-007	BT38-A002	OCDF	39001-02-0	3.7	PG/G	BJ	JB	107	<u> </u> j	0



المناف المناف	Cinc		Weign segmen	SAMP NUM	Keeviell	AVACALE	(STATIO)	i Estini	RESUET SUNITES	IDUAL)	VAL.	Penner Lan	SALES.	15
02E0001-011.001	Soil	MIS-A-004	SW9040B CHAPTER 7.	02E0001-011	BU38-0010	CORROSIVITY FOR LIQUID WASTE	261.22-A-1	1	S.U.		1			
02E0001-011.001	Soil	MIS-A-004	SW9040B CHAPTER 7.	02E0001-011	BU38-0010	CORROSIVITY FOR LIQUID WASTE	261.22-A-1	8.4	S.U.		V1			
02E0001-012.001	Soil	MIS-A-004	SW9040B CHAPTER 7.	02E0001-012	BU38-0012	CORROSIVITY FOR LIQUID WASTE	261.22-A-1	8.8	S.U.		V1			
02E0001-013.001	Soil	MIS-A-004	SW9040B CHAPTER 7.	02E0001-013	BU38-0013	CORROSIVITY FOR LIQUID WASTE	261.22-A-1	8.8	S.U.		V1			
02E0001-014.001	Soil	MIS-A-004	SW9040B CHAPTER 7.	02E0001-014	BU38-0014	CORROSIVITY FOR LIQUID WASTE	261.22-A-1	8.7	s.u.					
02E0001-015.001	Soil	MIS-A-004	SW9040B CHAPTER 7.	02E0001-015	BU38-0015	CORROSIVITY FOR LIQUID WASTE	261.22-A-1	8.8	s.u.		V1			
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	RA-226	10031-23-9	2.05	pCi/g					<u> </u>
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	RA-226	10031-23-9	2.05	pCi/g				0	
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	K-40	13966-0-2	13.1	pCi/g	<u> </u>				<u> </u>
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	K-40	13966-0-2	13.1	pCi/g				0	
02E0022-007.002	Soil	UR\$10B19	HPGe	02E0022-007	BU38-0002	CS-137	13967-70-9	0	pCi/g					
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	CS-137	13967-70-9	0	pCi/g				0	
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	PO-210	13981-52-7	0	pCi/g					
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	PO-210	13981-52-7	0	pCi/g				0	
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	TH-230	14269-63-7	0	pCi/g					
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	TH-230	14269-63-7	0	pCi/g				. 0	
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	AM-241	14596-10-2	0	pCi/g					4
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	AM-241	14596-10-2	0	pCi/g				0	4
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	BI-214	14733-03-0	0.525	pCi/g					
02E0022-007.002	Soil	URS10819	HPGe	02E0022-007	BU38-0002	BI-214	14733-03-0	0.525	pCi/g				0	
02E0022-007.002	Soil	URS10819	HPGe	02E0022-007	BU38-0002	BI-212 :	14913-49-6	0.866	pCi/g					
02E0022-007.002	Soil	URS10819	HPGe	02E0022-007	BU38-0002	BI-212	14913-49-6	0.866	pCi/g				0]
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	TL-208	14913-50-9	0.378	pCi/g					
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	TL-208	14913-50-9	0.378	pCi/g				0	
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	Th-231	14932-40-2	Ō	pCi/g					
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	Th-231	14932-40-2	0	pCi/g				0	
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	PB-214	15067-28-4	0.528	pCi/g					
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	PB-214	15067-28-4	0.528	pCi/g				0	
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	PB-212	15092-94-1	1.02	pCi/g					
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	PB-212	15092-94-1	1.02	pCi/g				0	
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	PA-234	15100-28-4	0	pCi/g					
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	PA-234	15100-28-4	0	pCi/g				0	
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	PA-234M	15100-28-4m	0	pCi/g					
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	PA-234M	15100-28-4m	0	pCi/g				0	
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	U-235	15117-96-1	0	pCi/g					1
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	U-235	15117-96-1	0	pCi/g				0	1





Stab San	a sainte	1507	WEIL COLE	ASTRUMINE PIERS	1000 10011	Cara Vejanija	CAS NO.	RESULT	RESULT LUCIUS	338	認證	裁談	麓
02E0022-007.002						AC-228	7440-34-8	1.1	pCi/g				
02E0022-007.002	Soil	URS10819	HPGe	02E0022-007	BU38-0002	AC-228	7440-34-8	1.1	pCi/g			0;	
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	U238/234	7440-61-1	1.66	pCi/g	 			8
02E0022-007.002	Soil	URS10B19	HPGe	02E0022-007	BU38-0002	U238/234	7440-61-1	1.66	pCi/g	 *********		0	8

		SAME							
veriler i Essitar	istatione Les trivières	SOFFIEC	(XI-11)	গুরাচ	성크회	(SARVENINCIO)	-: Original Major.	An a Maria Contract	Lick
886	800-4		Soil				02E0096-016.002	Gamma Spec in Water	URS10B18
CI38-0001	800-4		Soil				02E0098-001.002	Total Metals by ICP	MET-A-023
Cl38-0002	800-4	1	Soil	<u> </u>			02E0096-002.002	Total Metals by ICP	MET-A-023
CI38-0002	800-4	<u> </u>	Soil				02E0096-001.002	Total Metals by ICP	MET-A-023
Cl38-0006	800-4	1	Soil	!			02E0096-004.002	Total Metals by ICP	MET-Ä-023
CI38-0006	800-4	1	Soil				02E0096-005.002	Total Metals by ICP	MET-A-023
CI38-0006	800-4		Soil				02E0096-005.004	Isotopic Am, Pu, U	ASP-A-004
CI38-0006	800-4		Soil				02E0096-004.004	Isotopic Am, Pu, U	ASP-A-004
CI38-0006	800-4	<u> </u>	Soil				02E0096-003.002	Total Metals by ICP	MET-A-023
Cl38-0008	800-4	<u> </u>	Soil		<u> </u>		02E0098-013.003	Total Metals by ICP	MET-A-023
CI38-0008	800-4	ļ	Soil				02E0098-012.002	Total Metals by ICP	MET-A-023
Cl38-0011	800-4	ļ	Soil		<u> </u>		02E0096-007.002	Total Metals by ICP	MET-A-023
Cl38-0011	800-4	ļ	Soil	ļ	<u> </u>		02E0096-006.002	Total Metals by ICP	MET-A-023
CI38-0012	800-4		Soil	ļ	 		02E0098-022.003	Total Metals by ICP	MET-A-023
Cl38-0012	800-4	ļ	Soil	ļ <u>-</u>			02E0098-023.003	Total Metals by ICP	MET-A-023
CI38-0012	800-4	:	Soil	<u> </u>	·		02E0098-021.002	Total Metals by ICP Total Metals by ICP	MET-A-023 MET-A-023
CI38-0013 CI38-0013	800-4 800-4		Soil Soil				02E0098-018.003 02E0098-017.002	Total Metals by ICP	MET-A-023 MET-A-023
Cl38-0015	800-4	! !	Soil		<u> </u>	The sub-reserved A destroy at anits well rises to deficiency when the	02E0096-017.002	Total Metals by ICP	MET-A-023
CI38-0015	800-4		Soil				02E0096-013.002	Total Metals by ICP	MET-A-023
Cl38-0016	800-4	 	Soil	 	<u> </u>		02E0096-009.002	Total Metals by ICP	MET-A-023
CI38-0016	800-4		Soil		h		02E0096-008.002	Total Metals by ICP	MET-A-023
Cl38-0017	800-4	<u> </u>	Soil	 	 		02E0098-020.003	Total Metals by ICP	MET-A-023
Cl38-0017	800-4	ļ	Soil	 	 		02E0098-019002		MET-A-023
Cl38-0019	800-4	 	Soil	 	 		02E0099-002.004	Isotopic Am, Pu, U	ASP-A-004
Cl38-0020	800-4		Soil			SPANISHED AND THE SPANISHES AN	02E0096-015.002	Total Metals by ICP	MET-A-023
Cl38-0020	800-4:		Soil	1			02E0096-014.002	Total Metals by ICP	MET-A-023
CI38-0046	800-4	<u> </u>	Soil	1:		hangagan ann ann annsa-ann an an an ann ann an an ann an an an	02E0080-005.001	Gamma Spectroscopy on Solids	URS10B19
CI38-H032	886	Grab	Soil	2	2.5	Below concrete floor	02E0020-002.004	Nitrite by Ion Chromatography	MIS-A-026
CI38-H032	886	Grab	Soil	2	2.5	Below concrete floor	02E0020-002.004	Nitrite by Ion Chromatography	MIS-A-026
Cl39-0001	800-4		Soil				02E0083-002.004	Isotopic Am, Pu, U	ASP-A-004
CI39-0001	800-4		Soil				02E0083-009.004	Isotopic Am, Pu, U	ASP-A-004
CI39-0005	800-4		Soil				02E0096-011.002	Total Metals by ICP	MET-A-023
Cl39-0005	800-4		Soil					Gamma Spectroscopy on Solids	URS10B19
CI39-0005	800-4		Soil				02E0096-010.002	Total Metals by ICP	MET-A-023
SW Corner of	800-4		Water				02E0084-001.001	Volatile Organics in Aqueous Samples	VOA-A-009
SW Corner of	800-4		Water				02E0084-001.003	Volatile Organics in Aqueous Samples	VOA-A-009
SW. Comer o	800-4	ļ	Water	ļ	ļ		02E0084-002.001	Volatile Organics in Aqueous Samples	VOA-A-009
SW. Comer o	800-4	ļ. <u></u>	Water		ļ		02E0084-002.003	Volatile Organics in Aqueous Samples	VOA-A-009
828 Pit	800-4	<u> </u>	Water Quality		 		02E0079-005.002	Gamma Spectroscopy on Solids Semivolatile Organics in Water	URS10B19 SVO-A-005
828 PIT	800-4		Water Quality				02E0079-005.006 02E0079-005.003	Volatile Organics in Water Volatile Organics in Aqueous Samples	VOA-A-005
828 PIT 828 PIT	800-4 800-4	 	Water Quality Water Quality		 	ange ng gaya nga angangang, naya ngana at ingan at pri at at indonésian y ninak in biraan. Aft sara	02E0079-005.003	Volatile Organics in Aqueous Samples	VOA-A-009
828 PIT	800-4	ļ	Water Quality Water Quality		+		02E0079-006.001	Volatile Organics in Aqueous Samples Volatile Organics in Aqueous Samples	VOA-A-009
020 FII	1800-4	L	water Quality	L	<u>i</u>		UZEUU19-UU1.UU1	I volatile Organius in Aqueous Samples	V O A - A - U U B



		ાલુંગામાં ક ્યાં		la-ler s	33-61				1000
i Asserbice	Esting Recipies	CONTRACT CON		3130	9-6	LEONNE THESE	-isonrife (Nilly)	Activ delitation	11 经交易的
828 Pit	80		Water Quality		Tractual 62	V COMMEMBO	02E0079-005.010	Alpha Spec in Water	ASP-A-002
828 Pit	80		Water Quality	1			02E0079-005.010	Alpha Spec in Water	ASP-A-002
828 Pit		0-4 \	Water Quality				02E0079-005.011	Alpha Spec in Water	ASP-A-002
886	80		Water Quality	i	· · · · · · · · · · · · · · · · · · ·		02E0079-003.012	Gamma Spectroscopy on Solids	URS10B19
886	180		Water Quality				02E0080-006.002	Gamma Spectroscopy on Solids	URS 10B19
886	180		Water Quality				02E0080-006.002	Semivolatile Organics in Water	SVO-A-005
886	80		Water Quality			CONTRACTOR OF THE PROPERTY OF	02E0080-007.001	Volatile Organics in Aqueous Samples	VOA-A-009
886	800		Water Quality	4			02E0080-007.001	Volatile Organics in Aqueous Samples	VOA-A-009
886	1800		Water Quality		·		02E0080-008.001	Volatile Organics in Aqueous Samples	
886	800		Water Quality	·			02E0080-006.010	Alpha Spec in Water	ASP-A-002
886	800		Water Quality				02E0080-006.011	Alpha Spec in Water	ASP-A-002
886	800		Water Quality				02E0080-006.012	Alpha Spec in Water	ASP-A-002
886	800		Water Quality				02E0102-009.003	Volatile Organics in Aqueous Samples	
886	800		Water Quality				02E0102-009.002	Gamma Spec in Water	URS10B18
886	800		Water Quality			at an derivative to the type of their set to the second of the second	02E0102-009.006	Semivolatile Organics in Water	SVO-A-005
886	800		Water Quality		· · · · į		02E0102-010.001	Volatile Organics in Aqueous Samples	
886	800		Water Quality				02E0102-011.001	Volatile Organics in Aqueous Samples	VOA-A-009
886	800		Water Quality				02E0098-014.003	Volatile Organics in Aqueous Samples	
886	1800		Water Quality			and the control of th	02E0098-014.002	Gamma Spec in Water	URS10B18
886	800		Water Quality				02E0098-014.005	Total Metals by ICP in Water	MET-A-019
886	800		Water Quality			Market and the second of the s	02E0098-014.006	Semivolatile Organics in Water	SVO-A-005
886	800		Water Quality			•	02E0098-015.001	Volatile Organics in Aqueous Samples	VOA-A-009
886	800		Water Quality			of calculate and a sign broad accordance of the acceptance of the second	02E0098-016.001	Volatile Organics in Aqueous Samples	VOA-A-009
886	800		Water Quality		·	•	02E0096-016.005	Total Metals by ICP in Water	MET-A-019
886	800		Water Quality			entre se como e la successión de estado entre se entre	02E0096-016.003	Volatile Organics in Aqueous Samples	
886	800		Water Quality				02E0096-019.001	Alpha Spec in Water	ASP-A-002
886	800		Water Quality	1		Property and the expenses of a second party of the second	02E0096-019.002	Alpha Spec in Water	ASP-A-002
886	800	manuscriptor or and companies transmission	Water Quality				02E0096-019.003	Alpha Spec in Water	ASP-A-002
886	800	0-4	Water Quality				02E0096-019.004	Alpha Spec in Water	ASP-A-002
886	800)-4	Water Quality				02E0096-017.001	Volatile Organics in Aqueous Samples	:VOA-A-009
886	800)-4	Water Quality			digita in see and a state of an exercise in mode of real orbital tensor (all an exercise between the state of	02E0096-018.001	Volatile Organics in Aqueous Samples	
886	800		Water Quality				02E0083-010.011	Alpha Spec in Water	ASP-A-002
886	800		Water Quality		i		02E0083-010.010	Alpha Spec in Water	ASP-A-002
886	800)-4	Water Quality			* * - ** 1: ** 1	02E0083-010.009	Alpha Spec in Water	ASP-A-002
886	800)-4	Water Quality			man maga mana ana an arang a manipirana maha manain ana ammana manain ammain ammain a	02E0083-010.008	Alpha Spec in Water	ASP-A-002
886	800		Water Quality				02E0083-010.002	Gamma Spec in Water	URS10B18
886	800		Water Quality				02E0083-012.001	Volatile Organics in Aqueous Samples	VOA-A-009
886	800		Water Quality		· · · · · · · · · · · · · · · · · · ·		02E0083-011.001	Volatile Organics in Aqueous Samples	VOA-A-009
886	800	0-4	Water Quality				02E0083-010.006	Semivolatile Organics in Water	SVO-A-005
886	800	0-4	Water Quality				02E0083-010.003	Volatile Organics in Aqueous Samples	VOA-A-009
889	800)-4	Water Quality				02E0084-005.001	Volatile Organics in Aqueous Samples	VOA-A-009
889	800)-4	Water Quality			The same of the sa	02E0084-003.005	Gross Alpha/Beta	OS01A004
889	800)-4	Water Quality				02E0084-003.005	Rad Screen - Aqueous	OS01A002
889	800	0-4	Water Quality				02E0084-003.001	Volatile Organics in Aqueous Samples	VOA-A-009



		SAMP 18			NAME OF TAXABLE PARTY.		上
		COLUE OH	(\$): [0] (\$) (\$) (\$) (\$)				10000000000000000000000000000000000000
Connector - Familiar i Medillar	S: 1010.0) (6) 6	Programme Wester	alelia de la calcula	COOMING VIEW	ระเอาสะได้ โทยเก	White will a comment of the	医型型多数
889	800-4	Mater Ouglitud			10050004 002 002		I BECKENICATED
	000-4	Water Quality			02E0084-003.003	Volatile Organics in Aqueous Samples	VOA-A-009
SOIL PILE	800-4	Water Quality	ł		02E0082-005.002	Gamma Spec in Water	URS10B18
SOUTHWEST	800-4	Water Quality		The second of th	02E0084-001.005	Gross Alpha/Beta	OS01A004
SOUTHWES1	800-4	Water Quality			02E0084-001.005	Rad Screen - Aqueous	OS01A002
SW CORNER	800-4	Water Quality	management of the state of the	The state of the s	02E0084-002.005	Gross Alpha/Beta	OS01A004
SW CORNER	800-4	Water Quality		1	02E0084-002.005	Rad Screen - Aqueous	OS01A002

-

APPENDIX C CORRESPONDENCE

From:

Spence, Tracey

Sent:

Tuesday, January 29, 2002 5:07 PM

To: Cc: Castaneda, Norma; 'elizabeth.potorff@state.co.us'; Bryson, Eva

Butler, Lane; Broussard, Marcella; Lindsay, Thomas; Primrose, Annette; Serreze, Susan;

Shafer, Douglas

Subject:

B123 Project Status 01-29-02

Both concrete areas with fixed contamination (in former Room 125 and Room 109) covered with steel plate have been removed and sampled. The Room 125 concrete and steel plate has been containerized in two ST90 metal containers. Approximately 1/3 of the Room 109 concrete material has also been containerized. The remaining 2/3 of this material was covered with plastic sheeting and will be containerized tomorrow in ST90 containers.

Approximately 2,800 square feet of the concrete slab has been broken near the southeast section of the slab using an excavator with a hydraulic hammer attachment. This work will be continued tomorrow on the east wing.

Tracey Spence Environmental Restoration, T124A 303-966-4322

Pager: 212-6575 Fax: 303-966-2402

From:

Spence, Tracey

Sent:

Thursday, January 31, 2002 4:31 PM

To:

Butler, Lane; Bryson, Eva; Broussard, Marcella; Castaneda, Norma; Foss, Dyan;

'Kleeman.Gary@EPA.gov'; Lucero, Robert; Madore, Catherine; McCranie, Deanna; Norland, Lee; 'Elizabeth.Potorff@state.co.us'; Primrose, Annette; Serreze, Susan; Shafer, Douglas;

'Carl.Spreng@state.co.us'

Cc: Subject: Spence, Tracey

B123 Status 01-31-02

B123 Slab Removal activities completed the week ending January 31, 2002:

- Removed two concrete areas with known fixed contamination covered with steel plate (in former Room 125 and Room 109).
- Sampled concrete with known fixed contamination and packaged the concrete and steel plate in six metal waste containers. The containers are staged within a Radiological Material Area established adjacent to the site on 4th Street.
- Broke and removed 2/3 of concrete slab section of the east wing. Concrete demolition is performed using an excavator with a hydraulic hammer and bucket/thumb attachment.
- Loaded and transported seven tandem dump-truck loads of the concrete to the onsite 980 Pad recycle stockpile area.

Work planned next week:

- Continue demolition of concrete slab and load-out to the 980 Pad recycle stockpile.
- Remove and package lead-contaminated soil at former Room 105.
- Initiate demolition of foundation footers.

Please note that the B123 project work schedule at this time is four 10-hour days (Monday - Thursday).

Tracey Spence Environmental Restoration, T124A 303-966-4322 Pager: 212-6575

Fax: 303-966-2402

From:

Spence, Tracey

Sent:

Tuesday, February 05, 2002 5:33 PM

To:

Butler, Lane; Bryson, Eva; Broussard, Marcella; Castaneda, Norma; Foss, Dyan;

'Kleeman.Gary@EPA.gov'; Lucero, Robert; Madore, Catherine; McCranie, Deanna; Norland, Lee; 'Elizabeth Potorff@state.co.us'; Primrose, Annette; Rosco, Douglas; Serreze, Susan;

Shafer, Douglas, 'Carl.Spreng@state.co.us'

Cc: Subject: Spence, Tracey

B123 Slab Removal Status 02-05-02

The following B123 slab removal activities were performed on Monday and Tuesday, February 4 and 5:

- Removed concrete slab sections of the east and north wings of the B123 pad.

- Loaded and transported 23 loads of concrete to the onsite 980 Pad for recycle.

- Verified and disconnected abandoned electrical lines on the north and south sides of the pad.

- Collected pH samples from surface soils within PAC 100-611.

Work Planned the rest of this week:

- Continue demolition of concrete slab and load-out to the 980 Pad recycle stockpile.

- Remove and package lead-contaminated soil at former Room 105.

- Initiate demolition of foundation footers.

Tracey Spence Environmental Restoration, T124A 303-966-4322

Pager: 212-6575 Fax: 303-966-2402

From: Sent:

David Kruchek [David.Kruchek@state.co.us]

To:

Cc:

Friday, February 08, 2002 2:22 PM Kleeman.Gary@EPA.gov; Deanna.McCranie@rf.doe.gov; Eva.Bryson@rf.doe.gov;

Norma.Castaneda@rf.doe.gov; Robert.Lucero@rf.doe.gov; Annette.Primrose@rfets.gov; Catherine Madore@rfets.gov; Douglas Rosco@rfets.gov; Douglas Shafer@rfets.gov;

Dyan.Foss@rfets.gov; Lane.Butler@rfets.gov; Lee.Norland@rfets.gov;

Marcella.Broussard@rfets.gov; Susan.Serreze@rfets.gov; Tracey.Spence@rfets.gov; Carl.Spreng@state.co.us; David.Kruchek@state.co.us; Elizabeth.Pottorff@state.co.us

JAMES Hindman

Subject:

Re: B123 Remediation Status 02-08-02

Thanks Tracy for the update.

Didn't see anything regarding the possible 125 sump, so just wanted to make sure that was still on the radar screen, since it was not previously RCRA closed. Please let me know what was determined regarding this sump.

>>> "Spence, Tracey" <Tracey.Spence@rfets.gov> 02/08/02 12:16PM >>> B123 activities completed the week ending February 8, 2002:

Removed concrete slab sections on the east, north and west wings of the B123 pad.

Loaded and transported 47 loads of concrete to the onsite 980

stockpile for recycle.

Collected pH samples from surface soil in PAC 100-611.

Removed 8 concrete spreader footers (building support columns

4-foot by 4-foot by 1.5-foot thick concrete bases buried approximately

feet below ground surface).

Forecast Work:

Week Ending February 15:

Deliver two 20' cargo containers for concrete and piping waste

B123 site.

Continue removal of concrete spreader footers, break and transport

footers to 980 Pad.

Commence demolition of foundation (perimeter) footing, concrete removal and load-out to the 980 Pad.

Excavate and package lead-contaminated soil and collect soil samples.

Week Ending February 22:

Remove, package and sample the former Room 156, 157 and 158 concrete-filled sumps.

Remove, sample and package source well materials.

Commence removal of process waste lines.

Tracey Spence **Environmental Restoration, T124A** 303-966-4322 Pager: 212-6575 Fax: 303-966-2402 E-mail: tracey.spence@rfets.gov

From:

Spence, Tracey

Sent:

Friday, February 08, 2002 12:16 PM

To:

Butler, Lane; Bryson, Eva; Broussard, Marcella; Castaneda, Norma; Foss, Dyan;

Kleeman.Gary@EPA.gov'; 'David.Kruchek@state.co.us'; Lucero, Robert; Madore, Catherine; McCranie, Deanna; Norland, Lee; 'Elizabeth.Pottorff@state.co.us'; Primrose, Annette; Rosco, Douglas; Serreze, Susan; Shafer, Douglas; 'Carl.Spreng@state.co.us'

Spence, Tracey

Subject:

B123 Remediation Status 02-08-02

B123 activities completed the week ending February 8, 2002:

- Removed concrete slab sections on the east, north and west wings of the B123 pad.
- Loaded and transported 47 loads of concrete to the onsite 980 Pad stockpile for recycle.
- Collected pH samples from surface soil in PAC 100-611.
- Removed 8 concrete spreader footers (building support columns with 4-foot by 4-foot by 1.5-foot thick concrete bases buried approximately four feet below ground surface).

Forecast Work:

Week Ending February 15:

- Deliver two 20' cargo containers for concrete and piping waste to B123 site.
- Continue removal of concrete spreader footers, break and transport footers to 980 Pad.
- Commence demolition of foundation (perimeter) footing, concrete removal and load-out to the 980 Pad.
- Excavate and package lead-contaminated soil and collect soil samples.

Week Ending February 22:

- Remove, package and sample the former Room 156, 157 and 158 concrete-filled sumps.
- Remove, sample and package source well materials.
- Commence removal of process waste lines.

Tracey Spence

Environmental Restoration, T124A

303-966-4322 Pager: 212-6575

Fax: 303-966-2402

From:

Spence, Tracey

Sent:

Thursday, February 14, 2002 5:11 PM

To: Subject: Norland, Lee; Shafer, Douglas; Serreze, Susan

FW: B123 Backfill

FYI.

--Original Message-

From:

David Kruchek [SMTP:David.Kruchek@state.co.us] Thursday, February 14, 2002 3:32 PM

Sent:

To:

Tracey.Spence@rfets.gov

Annette.Primrose@rfets.gov; Dyan.Foss@rfets.gov; Carl Spreng; Steve Tartton; Elizabeth.Pottorff@state.co.us

Subject:

Re: B123 Backfill

We concur with these points with the following clarification:

In point #2, discrete soil samples need to be collected at locations with evidence of pipe failure or leakage. Rather than "may be collected". This is assuming the process waste lines are generally in tact and any point of discharge would be an unusual occurrence and should be sampled.

>>> "Spence, Tracey" <Tracey.Spence@rfets.gov> 02/13/02 11:02AM >>> David.

In follow-up to our meeting yesterday concerning the use of onsite soil

backfill material at the B123 site, the points of our discussion are summarized below for clarification. Please provide your concurrence

these points.

1. The soil recently excavated adjacent to portions of the

footer of the B123 foundation west wing will be returned to the excavation

trench as clean backfill material based on building process knowledge, field

screening results, and the existing B123 surface and subsurface soil sampling data (summarized in the Industrial Area Sampling and Analysis

Plan Fiscal Year 2002 Addendum #IA-02-0) which indicate that this soil is

Field screening radiological surveys were performed on the concrete

material. No fixed or removable radioactivity on the concrete was observed.

2. In accordance with the Field Implementation Plan Addendum

for Removal of Building Slabs for B123 and the B121 Security Incinerator,

removal of the B123 underground process waste lines overburden soil to ... within approximately six inches of the top of piping will be excavated

stockpiled for use as backfill material unless there is evidence of contamination identified through visual inspection and field screening.

Following removal of clean overburden, potentially contaminated soil

excavated and sampled and dispositioned appropriately. Discrete soil samples may be collected at locations with evidence of pipe failure and leakage.

3. Once a section of B123 process line has been removed and all potentially contaminated soil is excavated, confirmation soil samples

will

be collected from the excavation per RADMS to determine the post-action

condition of the subsurface soils. The confirmation samples will be analyzed for radionuclides by alpha-spectroscopy at an off-site laboratory.

The turnaround time for the offsite analysis is expected to be up to five

days. To avoid potential safety and weather issues associated with open

trenches at the B123 site, the confirmation samples may be analyzed by gamma-spectroscopy prior to off-site shipment. The on-site gamma-spectroscopy results may be used to make decisions to backfill the

trenches prior to receiving the off-site confirmation sample results.

received, the confirmation sample results will be used to verify that

target cleanup levels are achieved. If the confirmation sample

indicate that contamination is present above cleanup target levels, further

excavation and sampling will continue.

Please contact me if you have any questions or require additional information.

Tracey Spence Environmental Restoration, T124A 303-966-4322 Pager: 212-6575 Fax: 303-966-2402 E-mail: tracey.spence@rfets.gov

From:

Spence, Tracey

Sent:

Saturday, February 16, 2002 6:41 AM

To:

Cc:

Butler, Lane; Bryson, Eva; Broussard, Marcella; Castaneda, Norma; Foss, Dyan;

'Kleeman.Gary@EPA.gov'; 'David.Kruchek@state.co.us'; Lucero, Robert; Madore, Catherine; McCranie, Deanna; Norland, Lee; 'Elizabeth.Pottorff@state.co.us'; Primrose, Annette; Rosco,

Douglas; Serreze, Susan; Shafer, Douglas; 'Carl.Spreng@state.co.us'

Spence, Tracey

Subject:

B123 Remediation Status 02-15-02

B123 activities completed the week ending February 15, 2002:

- Excavated and removed approximately 320 linear feet of the foundation (perimeter) footing on the north, east and
 west sections of the west foundation wing. Backfilled portions of the footer trenches on north and west sections of the
 west wing.
- Demolished removed pieces of concrete footer and transported the footer materials (approximately 80 cubic yards) to the 980 Pad stockpile for recycle. To date, approximately 540 cubic yards of B123 foundation concrete has been stockpiled at the 980 Pad.

Forecast Work:

- Continue excavation and demolition of foundation footing, concrete removal and load-out to the 980 Pad.
- Excavate and package lead-contaminated soil and collect soil samples.
- Remove, package and sample the former Room 156, 157 and 158 concrete-filled sumps.
- · Remove, sample and package source well materials.
- Commence removal of process waste lines.

Tracey Spence Environmental Restoration, T124A 303-966-4322

Pager: 212-6575 Fax: 303-966-2402

From:

Spence, Tracey

Sent:

Friday, February 22, 2002 12:45 PM

To:

Butler, Lane, Bryson, Eva; Broussard, Marcella, Castaneda, Norma, Foss, Dyan;

'Kleeman Gary@EPA gov', 'David Kruchek@state.co.us'; Lucero, Robert; Madore, Catherine:

McCranie, Deanna; Norland, Lee; 'Elizabeth Pottorff@state.co.us'; Primrose, Annette: Rosco.

Douglas; Serreze, Susan; Shafer, Douglas; 'Carl Spreng@state.co.us'

Spence, Tracey Cc:

Subject:

B123 Remediation Status 02-22-02

B123 activities completed the week ending February 22, 2002;

- Developed the draft IWCP work package for removing approximately 22 feet of steam line with asbestos insulation material.
- Removed soil with lead-contamination on north side of site, packaged soil in two metal waste containers, collected confirmation samples from excavation for offsite analysis for lead (see attached photos).
- Excavated to expose the underground sumps and associated process lines in former Rooms 156, 157, and 158 (see attached photos). The sumps appear to be filled with soil and gravel. The Room 156 sump contained water likely resulting from infiltration of surface water. The water was sampled for Gross Alpha/Beta analysis. Results are expected by Monday (February 25). The sumps will be removed and packaged once requirements for waste characterization and inspection of the contents of the sumps have been identified by the Waste Requirements Group on Monday, February 25.
- Continued demolition of foundation footing. Loaded and transported 12 loads of concrete to the 980 Pad for recycle. Approximately 600 cubic yards of concrete have been delivered to the 980 Pad. Back-filled footer trenches on north and west wings.

Forecast Work:

- Continue demolition of foundation footing on east wing and load-out to the 980 Pad.
- Remove, package and sample the former Room 156, 157 and 158 concrete-filled sumps.
- Remove rad-contaminated footer:
- Remove, sample and package source well materials.
- Commence removal of process waste lines.



B123 Pb Remediation Area 2-18-...



8123 Pb Remediation

Area Depth.



02-21-02.jpg



Sump.jpg



R123 Rm 157 158 Sumps.jpg

Tracey Spence

Environmental Restoration, T124A

303-966-4322 Pager: 212-6575 Fax: 303-966-2402

From:

Spence, Tracey

Sent:

Thursday, February 28, 2002 5:09 PM

To:

Butler, Lane; Bryson, Eva; Broussard, Marcella; Castaneda, Norma; Foss, Dyan;

'Kleeman Gary@EPA gov', 'David Kruchek@state.co.us'; Lucero, Robert, Madore, Catherine: McCranie, Deanna; Norland, Lee; 'Elizabeth.Pottorff@state.co.us'; Primrose, Annette; Rosco,

Douglas; Serreze, Susan; Shafer, Douglas; 'Carl.Spreng@state.co.us'

Cc:

Spence, Tracey

Subject:

B123 Remediation Status 03-01-02

B123 activities completed the week ending March 1, 2002:

- Removed the three concrete sumps and pipelines located in the former Rooms 156, 157 and 158. The sumps were filled with gravel and soil. Approximately 40 feet of 4-inch diameter stainless steel pipeline was removed. No contamination was detected on the sumps or pipelines. (see attached photos)
- Loaded the three concrete sumps and pipelines into two 20-foot cargo containers. The sumps and pipelines will be disposed offsite as low-level waste.
- Excavated greater than one foot of soil around and from beneath the sump locations and excavated greater than one foot of soil from the pipeline trench between the Room 156 sump location and the Room 157 sump location. The excavated soil was placed on and covered with plastic sheeting. This soil will be sampled next week for both onsite and offsite radionuclide analyses.
- Collected one confirmation sample from beneath each sump location and one confirmation sample in the pipeline trench between the Room 156 sump location and the Room 157 sump location. These samples will be shipped offsite for radionuclide analyses by alpha spectroscopy.
- Continued demolition of foundation footing on east wing and load-out to the 980 Pad.

Forecast Work:

- Continue demolition of remaining foundation footing and load-out to the 980 Pad.
- Remove section of the rad-contaminated footer encountered when removing the concrete area with fixed contamination in the former Room 125 location.
- Remove, sample and package source well materials.
- Commence removal of process waste lines.

No work was conducted at the 123 site on Monday and half the day Tuesday due to adverse weather conditions.



sumps.jpg



02-27-02.jpg

Tracey Spence Environmental Restoration, T124A 303-966-4322

Pager: 212-6575 Fax: 303-966-2402

From: Sent:

David Kruchek [David.Kruchek@state.co.us]

Tuesday, March 05, 2002 2:14 PM

To:

Kleeman.Gary@EPA.gov; Deanna.McCranie@rf.doe.gov; Eva.Bryson@rf.doe.gov; Norma.Castaneda@rf.doe.gov; Robert.Lucero@rf.doe.gov; Annette.Primrose@rfets.gov; Catherine.Madore@rfets.gov; Douglas.Rosco@rfets.gov; Douglas.Shafer@rfets.gov; Dyan.Foss@rfets.gov; Lane.Butler@rfets.gov; Lee.Norland@rfets.gov;

Marcella.Broussard@rfets.gov; Susan.Serreze@rfets.gov; Tracey.Spence@rfets.gov; Carl.Spreng@state.co.us; David.Kruchek@state.co.us; Elizabeth.Pottorff@state.co.us

stephen.nesta@rfets.gov; JAMES Hindman; Steve Tarlton

Cc: Subject:

Re: B123 Remediation Status 03-01-02

Tracey,

Sorry for not getting or replying to this earlier, but did you find any evidence of the contaminated sump in room 125 when the contaminated area was removed? The RCRA closure CDD for the sump in Rm 125 indicated that the sump in this room was not cleaned closed, nor were the process waste lines.

>>> "Spence, Tracey" <Tracey.Spence@rfets.gov> 02/28/02 05:08PM >>> B123 activities completed the week ending March 1, 2002:

Removed the three concrete sumps and pipelines located in the

Rooms 156, 157 and 158. The sumps were filled with gravel and soil. Approximately 40 feet of 4-inch diameter stainless steel pipeline was removed. No contamination was detected on the sumps or pipelines.

attached photos)

Loaded the three concrete sumps and pipelines into two 20-foot containers. The sumps and pipelines will be disposed offsite as

low-level

waste. Excavated greater than one foot of soil around and from beneath

sump locations and excavated greater than one foot of soil from the pipeline

trench between the Room 156 sump location and the Room 157 sump location.

The excavated soil was placed on and covered with plastic sheeting.

soil will be sampled next week for both onsite and offsite radionuclide analyses.

Collected one confirmation sample from beneath each sump location

and one confirmation sample in the pipeline trench between the Room 156 sump

location and the Room 157 sump location. These samples will be shipped

offsite for radionuclide analyses by alpha spectroscopy.

Continued demolition of foundation footing on east wing and load-out to the 980 Pad.

Forecast Work:

Continue demolition of remaining foundation footing and load-out

the 980 Pad.

Remove section of the rad-contaminated footer encountered when removing the concrete area with fixed contamination in the former Room 125

location.

Remove, sample and package source well materials. Commence removal of process waste lines.



No work was conducted at the 123 site on Monday and half the day Tuesday due to adverse weather conditions.

<<B123 Room 157&158 sumps.jpg>> <<B123 Sump Piping 02-27-02.jpg>>

Tracey Spence Environmental Restoration, T124A 303-966-4322 Pager: 212-6575 Fax: 303-966-2402 E-mail: tracey.spence@rfets.gov

From:

Spence, Tracey

Sent:

Friday, March 08, 2002 3:19 PM

To:

Butler, Lane; Bryson, Eva; Broussard, Marcella; Castaneda, Norma; Foss, Dyan;

'Kleeman Gary@EPA.gov'; 'David Kruchek@state.co.us'; Lucero, Robert; Madore, Catherine; McCranie, Deanna; Norland, Lee; 'Elizabeth Pottorff@state.co.us'; Primrose, Annette: Rosco.

Douglas; Serreze, Susan; Shafer, Douglas; 'Carl.Spreng@state.co.us'

Cc:

Subject:

Spence, Tracey B123 Remediation Status 03-08-02

B123 remediation activities completed the week ending March 8, 2002:

- Removed the east-west section of the P-2 process waste line (approximately 120 feet) from the B123 north wing. Liquid was encountered beneath a 4-foot section of pipe located beneath the former Room 112. The excavation was stopped in this area and samples of the liquid and soil beneath the liquid were collected. No contamination was detected on the removed pipe. Approximately 1 gallon of liquid was standing in the sand bedding beneath the pipe (see attached photographs). No other liquid was encountered during removal of the east-west section of P-2 pipe.
- Removed the north-south section (approximately 30 feet) of P-2 process waste pipe from beneath the former Room 132 area. No evidence of leakage from the pipe was observed.
- Two 10-foot sections of steam piping with asbestos-containing insulation were removed and packaged by an asbestos
 abatement contractor. The materials were transferred to B776.
- Continued removal of the east footing on the east wing and partially back-filled the footer trench. Concrete footer material was transported to the recycle 980 Pad.
- Collected samples from the soil stockpiles generated from removing soils beneath the P-2 piping and the three sump locations. These samples will be analyzed for radionuclides onsite using gamma spectroscopy and offsite by alpha spectroscopy. The excavated soil was placed on and covered with plastic sheeting.

Forecast Work:

- Continue demolition of remaining foundation footing and load-out to the 980 Pad.
- Continue removal of process waste lines.
- Receive results for pipe liquid samples and remediate soils if necessary.
- Remove section of the rad-contaminated footer encountered when removing the concrete area with fixed contamination in the former Room 125 location.
- Remove, sample and package source well materials.

Due to the high wind conditions, B123 field work was shut down a total of 11 hours this week.



Process I



Process L...



B123 North...



oom 112 Process Line Looking ...



loom 112 Process

Tracey Spence Environmental Restoration, T124A 303-966-4322

Pager: 212-6575 Fax: 303-966-2402

From:

Spence, Tracey

Sent:

Thursday, March 14, 2002 6:20 PM

To:

Butler, Lane; Bryson, Eva; Broussard, Marcella; Castaneda, Norma; Foss, Dvan:

'Kleeman.Gary@EPA.gov'; 'David.Kruchek@state.co.us'; Lucero, Robert; Madore, Catherine; McCranie, Deanna; Norland, Lee; 'Elizabeth.Pottorff@state.co.us'; Primrose, Annette; Rosco,

Douglas; Serreze, Susan; Shafer, Douglas; 'Carl.Spreng@state.co.us'

Cc. Subject: Spence, Tracey

B123 Remediation Status 03-15-02

B123 remediation activities completed the week ending March 15, 2002:

Removed the 18-foot-long Cs-137 source well. The source well piping consists of 18-inch diameter corrugated steel pipe with a slightly smaller diameter stainless steel liner pipe. A stainless steel bottom is welded to the bottom of the corrugated pipe. The source well appears to be filled with concrete. No significant corrosion was observed on the corrugated pipe surface (see attached photographs).

The source well was backfilled with sand. Groundwater was observed approximately 5 feet below the top of the pipe. No contamination was observed on the pipe surface; however, additional surveys will be made when the pipe is dry.

Samples were collected from soil beneath the bottom of the source well pipe and from soil adhered to the bottom of the pipe for radionuclide analyses (gamma and alpha spectroscopy). Samples were also collected for the same analyses from the stockpile of sand removed from around the pipe. Due the the depth of the source well excavation (approximately 20 feet) and associated hazards and weather issues, the excavation was backfilled to the base of the footer wall surrounding the hole (see attached photograph).

- Removed the west footer of the east wing (approximately 200 feet) and backfilled the footer trench.
- Excavated and removed approximately 90 feet of the north-south section of the P-2 process waste line beneath the (former) B123 east wing. Collected confirmation samples for this section of pipe.
- Containerized sections of the P-2 process waste line pipe removed last week from the north wing and from the former Room 132 area.
- Received gamma spectroscopy results for the soil samples collected last week beneath the P-2 process waste line. The results do not indicate activities above the MDA for analytes of concern.

- Continue demolition of remaining foundation footing and load-out to the 980 Pad.
- Continue removal of process waste lines.
- Remove section of the rad-contaminated footer encountered when removing the concrete area with fixed contamination in the former Room 125 location.



B123 Source Well 03-13-02.jpg



B123 Source Well Top 03-13-02...



Excavation Ba.

Tracey Spence Environmental Restoration, T124A 303-966-4322

Pager: 212-6575 Fax: 303-966-2402

From:

Spence, Tracey

Sent:

Friday, March 22, 2002 12:23 PM

To:

Butler, Lane, Bryson, Eva; Broussard, Marcella; Castaneda, Norma; Foss, Dyan;

'Kleeman.Gary@EPA.gov'; 'David.Kruchek@state.co.us'; Lucero, Robert; Madore, Catherine; McCranie, Deanna; Norland, Lee; 'Elizabeth.Pottorff@state.co.us'; Primrose, Annette; Rosco,

Douglas; Serreze, Susan; Shafer, Douglas; 'Carl Spreng@state.co.us'

Cc:

Spence, Tracey

Subject:

B123 Remediation Status 03-22-02

B123 remediation activities completed the week ending March 22, 2002;

- Removed 6' x 5' section of rad-contaminated (fixed) concrete footer at the former Room 125 area. Packaged the footer concrete into low-level waste cargo container.
- Completed removal of the remaining concrete footer and transported to the recycle stockpile. All B123 footer materials have been removed.
- Backfilled and compacted the P-2 process waste line trench (approx. 120 feet) excavated last week at the north wing area.
- Excavated and removed 40 feet of process waste pipe between the former Room 158 sump location and Manhole-1.
 Excavated soil to approximately one foot beneath the 40-foot section of pipe and stockpiled the soil on plastic.
 Collected one confirmation sample at the bottom of the pipe trench midway between the former sump and Manhole-1 locations. Collected characterization samples from the stockpile for radionuclide analyses.
- Packaged removed process waste pipe into low-level waste cargo container.
- Excavated and exposed one 5-foot deep concrete process waste line manhole (MH-1), located at the southwest corner of the site. Collected sample of liquid inside the manhole for gross alpha/beta analysis.
- Removed 1-1/2 feet (average) of soil overburden and underlying 4-inch asphalt between the former building east and west wing areas (approx. 5,400 square feet of asphalt).
- Excavated three pot-holes to identify and document depth of the Horizontal Drilling casing located beneath the former north wing area (photographed). This casing was measured greater than 3 feet below ground surface and will be left in place.
- Received gamma spectroscopy results for the soil samples collected last week beneath the sections of P-2 process
 waste line removed beneath the former east wing area. The results do not indicate activities above the MDA for
 analytes of concern.

Forecast work:

- Continue removal of remaining process waste lines located on the south side of the site. This includes removal of a second process waste manhole (MH-2).
- Backfill and compact P-2 waste line trenches at the former east wing areas.
- Receive MH-1 liquid data and manage liquid accordingly.
- Remove and package MH-1 in low-level waste cargo container.
- Continue removal and load-out of asphalt pavement on south side of site.
- Transfer the removed concrete pad from the B121 site to the B123 site. Break concrete pad at B123 site and load-out to the 980 recycle stockpile.

Note: Project completion expected by April 5, 2002.

Tracey Spence Environmental Restoration, T124A 303-966-4322

Pager: 212-6575 Fax: 303-966-2402

From:

Spence, Tracey

Sent:

Friday, March 29, 2002 12:11 PM

To:

Butler, Lane; Bryson, Eva, Broussard, Marcella, Castaneda, Norma, Foss, Dyan,

'Kleeman.Gary@EPA.gov'; 'David.Kruchek@state.co.us'; Lucero, Robert; Madore, Catherine; McCranie, Deanna; Norland, Lee; 'Elizabeth.Pottorff@state.co.us'; Primrose, Annette; Rosco,

Douglas; Serreze, Susan; Shafer, Douglas; 'Carl, Spreng@state.co.us'

Cc:

Spence, Tracey

Subject:

B123 Remediation Status 03-29-02

B123 remediation activities completed the week ending March 22, 2002;

- Transported (8'x 12') concrete pad from B121 to the B123 site with high capacity forklift. Size-reduced the pad with hydraulic hammer and loaded-out to the onsite concrete recycle stockpile. Backfilled the B121 pad area to grade with
- Received gross alpha/beta analysis results for liquid sample collected in B123 manhole MH-1. The analytical results indicate no contamination in the liquid.
- Excavated and removed the concrete manhole MH-1 and a 5'x5' concrete pad beneath the manhole. Collected confirmation soil samples from beneath the MH-1 location (for gamma-spec and alpha-spec analysis) and backfilled/compacted the excavation -- to allow work to continue in this area prior to receiving gamma-spec results. The manhole and concrete pad will be placed in to a low-level waste cargo container next week.
 - Note: an east-west trending 4" diameter HDPE pipe was exposed immediately north of MH-1. Approximately 3 gallons of liquid from the pipe were absorbed into the underlying soil. Soil samples were collected for gamma-spec and alpha-spec analysis. Gamma-spec results for the soil indicate no contamination in the soil. This pipe will be tracked both directions and removed next week when space is made available to excavate further.
- Received gamma-spec analysis results for the B123 east wing P-2 process waste line trench confirmation samples and soil stockpile characterization samples. Backfilled and compacted the B123 P-2 east wing area process waste line trenches.
- Backfilled the former courtyard area between the B123 east and west wing areas with onsite soils.
- Excavated the B123 SVOC soil contamination area (approx. 5'x5'x3' deep) and packaged soil into one metal waste container. Collected confirmation soil samples at the excavation bottom and collected soil samples for waste characterization. This remediation was conducted based on B123 pre-characterization subsurface soil data showing SVOC concentrations in soil above Tier II action levels.
- Excavated overburden soil above approximately 35' of the B123 P-1 process waste pipe extending east from manhole MH-1. Excavation at this location was stopped when it was observed that, if continued, the trench would be in close proximity to a known underground communications line in this area. Continued excavation will be evaluated next week with the K-H Excavation Specialist.
- Removed approx. 20' of B123 concrete sidewalk and steps and hauled concrete to the onsite recycle stockpile. All recyclable concrete has been removed from the B123 site.
- Rough-graded the northern 2/3 of the B123 site.
- Filled four 20' rolloff containers with asphalt removed from the former courtyard area.
- Decontaminated and released excavator (with hydraulic hammer attachment) from the B123 site and transported the excavator to the B889 site. Also released the tandem dump truck.

Forecast work:

- Continue removal of remaining process waste lines located on the south side of the site (as directed by Diggers). This includes the removal of a second process waste line manhole (MH-2) located approximately 65' east of MH-1.
- Collect trench and manhole MH-2 confirmation soil samples and associated soil stockpile characterization samples.
- Backfill and compact trench and manhole excavations.
- Track and remove the 4" diameter HDPE pipe.
- Package removed process waste pipe and manhole materials into low-level waste cargo container.
- Continue removal and load-out of asphalt pavement on south side of site.
- Release and transport excavator (with bucket/thumb) to B889 site.

Note: All B123 remediation and backfill and grading work is expected to be completed by April 5, 2002. Also, next week I plan to create a B123 project photograph file on the RFETS intranet. I'll notify you when it's available for review.

Tracey Spence **Environmental Restoration, T124A** 303-966-4322

Pager: 212-6575 Fax: 303-966-2402

From:

Spence, Tracey

Sent:

Friday, April 05, 2002 12:56 PM

To:

Butler, Lane, Bryson, Eva, Broussard, Marcella, Castaneda, Norma, Foss, Dyan,

'Kleeman.Gary@EPA.gov'; 'David.Kruchek@state.co.us'; Lucero, Robert; Madore, Catherine;

McCranie, Deanna, Norland, Lee; 'Elizabeth Pottorff@state.co.us', Primrose, Annette; Rosco,

Douglas; Serreze, Susan; Shafer, Douglas; 'Carl.Spreng@state.co.us' Spence. Tracey

Cc:

Subject:

B123 Remediation Status 04-05-02

B123 remediation activities completed the week ending April 5, 2002:

- Removed process waste manhole MH-2 on south side of the B123 site. Removed approximately 65 feet of process
 waste pipe line between B123 manholes MH-1 and MH-2. This completes removal of all B123 underground process
 waste lines and associated structures.
- Packaged MH-2 and process waste pipe into low-level waste cargo container. (See attached photograph)
- Collected confirmation soil samples from the pipeline trench and MH-2 excavations and characterization samples from the associated soil stockpiles. This completes sampling requirements for the B123 remediation project.
- Received gamma-spec analysis results for MH-1, MH-2 and associated process waste pipe trench confirmation soil samples. The gamma-spec analytical results for all samples indicate all isotopes of interest were well below applicable Tier II action levels for soils.
- Backfilled and compacted the MH-2 and process waste line trench.
- Tracked and removed approximately 85 feet of one 3" diameter HDPE electrical conduit pipe extending from MH-2 to 20 feet west of MH-1. The pipe was cut at this point due to nearness to the previously isolated 6" Domestic Fire Water pipe. This pipe was referred to as a 4" HDPE pipe in the 03-29-02 status report. The pipe has since been identified based on site utility maps.
- Completed removal and load-out of asphalt pavement for disposal as sanitary waste.
- Rough-graded B123 site in preparation for topsoil delivery next week.

Forecast work:

- Package concrete manhole MH-1 and 3" HDPE pipe in waste containers.
- Re-package two concrete sumps into one low-level waste cargo container, due to moisture observed inside the cargo.
- Relocate two cargo containers and five ST90 metal waste containers to B883 for foaming. The foam is used to brace
 the concrete materials inside the containers for transport. Once foamed, the cargo and ST90 containers will be
 staged at the B123 waste staging area (on 4th Street).
- Deliver and spread approved topsoil (from off-site vendor) at the B123 site.
- · Apply approved seed mix for temporary vegetation.
- Prepare B123 Project Closeout Report.



MH-2 ion

Note: I was unable to compile the B123 electronic photos on the RFETS Intranet this week. I will notify you once the photos are ready.

Tracey Spence Environmental Restoration, T124A 303-966-4322

Pager: 212-6575 Fax: 303-966-2402

From:

Spence, Tracey

Sent:

Thursday, April 11, 2002 6:31 PM

To:

Butler, Lane, Bryson, Eva, Broussard, Marcella; Castaneda, Norma, Foss, Dyan; 'Kleeman Gary@EPA gov'; 'David Kruchek@state.co.us'; Lucero, Robert; Madore, Catherine; McCranie, Deanna; Norland, Lee; 'Elizabeth Pottorff@state.co.us'; Primrose, Annette; Rosco, Douglas; Serreze, Susan; Shafer, Douglas; 'Carl Spreng@state.co.us'

Cc:

Spence, Tracey

Subject:

B123 Remediation Status 04-12-02

B123 remediation activities completed the week ending April 12, 2002:

- Packaged concrete manhole MH-1 and all remaining process waste pipe into one low-level waste cargo container.
- Re-packaged one concrete sump into a fabric LiftLiner.
- Transported all B123 waste containers from the 4th Street waste staging area to the B123 site.
- Delivered 32 end-dump loads of topsoil to B123 site and spread the topsoil with front-end loader.

Forecast work:

- Fill two cargo containers and five ST90 metal waste boxes with foam to brace concrete materials (weighing over 200 pounds) inside the containers for shipment to an offsite disposal facility.
- Final grade the site and apply approved seed mix for temporary vegetation.
- Prepare B123 Project Closeout Report.

Tracey Spence Environmental Restoration, T124A 303-966-4322

Pager: 212-6575 Fax: 303-966-2402

From: Sent: To:

Spence, Tracey

Friday, April 19, 2002 2:05 PM

Butler, Lane; Bryson, Eva; Broussard, Marcella; Castaneda, Norma; Foss, Dyan; 'Kleeman.Gary@EPA.gov'; 'David.Kruchek@state.co.us'; Lucero, Robert; Madore, Catherine; McCranie, Deanna; Norland, Lee; 'Elizabeth.Pottorff@state.co.us'; Primrose, Annette; Rosco, Douglas; Serreze, Susan; Shafer, Douglas; 'Carl.Spreng@state.co.us'

Cc:

Spence, Tracey

Subject: B123 Remediation Status 04-19-02

B123 remediation activities completed the week ending April 19, 2002:

- Size-reduced and repackaged one concrete sump into two Lift-Liner waste containers.
- Collected samples from OPWL pipe previously packaged in cargo container for RCRA characterization.
- Filled two cargo containers and five ST90 metal waste boxes with foam to brace concrete materials inside the containers for shipment to an offsite disposal facility.
- Demobilized all heavy equipment from B123 site.
- Scarified topsoil, seeded and applied hydromulch to B123 site. This completes the B123 site remediation activities.

Forecast work:

- Receive approvals for waste shipment.
- Prepare B123 Project Closeout Report

Tracey Spence Environmental Restoration, T124A 303-966-4322

Pager: 212-6575 Fax: 303-966-2402

Appendix D 100-4 Proposed RFCA Action Levels

Appendix D
100-4 Proposed RFCA Action Levels

Leastier Code			Reckerand Place Toro	WRW AL	ECO AL
Location Code	Analyte	Result (pCi/g)	Background Plus Two Standard Deviations (pCi/g)	(pCi/g)	ECO AL (pCi/g)
BU38-0002	Uranium-238	1.66	1.49	351	
BU38-0002	Uranium-238	1.66	1.49	351	
BU38-0004	Uranium-235	0.20	0.12	8	
	Uranium-238	1.68	1.49	351	
BU38-0005	Americium-241	0.05	0.02	76	
BU39-0001	Uranium-238	3.03	1.49	351	
BU39-0004	Americium-241	0.08	0.02	76	
BU39-0011	Uranium-238	3.09	1.49	351	
BV39-0003	Uranium-235	0.30	0.12	8	
	Uranium-235	0.23	0,12	8	
	Uranium-238	3.70	1.49	351	
	Uranium-238	5.06	1.49	351	
Central Point on Southern PWL	Uranium-238	1.55	1.49	351	
Eastern Process Line	Americium-241	0.13	0.02	76	
	Plutonium-239/240	0.06	0.02	50	
	Uranium-238	2.47	1.49	351	
Northern Process Line	Plutonium-239/240	0.11	0.02	50	
	Uranium-235	0.15	0.12	8	

	CDPHE Comments, August 9, 2002	Responses
1	In the introduction, and Title, it should be identified that groups 100-4 & 100-5 are specifically related to Building 123 (slab removal) and the 121 incinerator pad. This helps identify the locations of these groups and the purpose of this activity, rather than the rather nebulous groups indicated. This will also help in cross referencing and finding information related to specific areas and buildings in the future.	The UBC site, IHSS, and PAC numbers were added to the Title page. The Introduction pertains to IHSS Groups 100-4 and 100-5. IHSS Group 100-4 is specifically introduced in Section 2.0 and IHSS Group 100-5 in Section 3.0. Describing IHSS Group 100-4 as Building 123 is misleading because this IHSS Group includes one UBC site, one IHSS, and two PACs.
	Not providing the useful information tying these nebulous ER groups to B123 and the 121 Pad creates confusion and misunderstanding. Although this does include more than just the UBC, this is all associated with B123 and 121 Pads. As such it is requested the title include reference to B123 and 121.	As stated above the title was changed to correctly refer to UBC 123, IHSS 148, PAC 100-611, and 100-5 (PAC 100-609). These are the correct RFCA designations for these sites. The designations "B123" and "121", while generally used by some regulatory agency and Site staff, are inaccurate. Decision documents must be technically correct. Phrases, acronyms, and abbreviations used by agency or Site staff are not the RFCA, CERCLA, RCRA, or CHWA designations for these sites. Both the IASAP addendum and ER RSOP notification used these designations. Changing designations now would be more confusing for those trying to follow the progress of the projects. Additionally, the removal of the Building 123 slab and the Building 121 incinerator pad were only part of the projects.
2	The sampling locations with exceedences of Tier 2 should be highlighted on figures 3 and 4 for quick identification.	These maps are already extremely busy and additional colors and associated legend elements will result in a less readable map. The AOC, which indicates Tier II exceedances, is shown on Figure 6. Figures 3 and 4 were initially presented in IASAP Addendum #IA-02-01. CDPHE approval of the addendum constitutes approval of the map content.



	Highlighting by bolding should not create any issues with the readability of the map, and would add important information, currently missing. Simply because they were previously presented in another context does not provide any specific support for their current state.	It is very difficult to highlight text in text boxes on Figures 3 and 4 because the data was generated as graphics. Additionally, it is, in general, difficult to format text in ArcView because it is a mapping program not a graphics program. In future maps, separate location symbols will be used to differentiate between RFCA Tier I, RFCA Tier II, and other sampling location results as follows: Red colored symbols will be used for sampling locations with results greater than RFCA Tier I ALs; Blue colored symbols will be used for sampling locations with results greater than Tier II ALs; Yellow colored symbols will be used for sampling locations with results greater than background mean plus two standard deviations or detection limits; and Gray colored symbols will be used for sampling locations with results less than background mean plus two standard deviations or detection limits.
3	Figure 6 needs to identify on the map the specific locations and levels utilized to generate this map. If only two locations were actually elevated above levels of concern why does Figure 6 identify such a large area above Tier 2?	This map was generated using the data on Figures 3 and 4 and illustrates a contour around Tier II exceedances. This map was initially presented in ER RSOP Notification #02-01.



Figure 6 should provide the information to support the map as drawn or another map should be made that properly presents this information.

The information to support this map is on Figures 3 and 4. The development of this map was discussed with Carl Spreng of CDPHE. The options for this map were (1) present circles around each Tier II AL exceedance or (2) present a "contour" line around the exceedances. Both CDPHE and DOE agreed that a "contour" map was appropriate. CDPHE approval of ER RSOP Notification #02-01 constitutes approval of the map content.

The text in Section 2.2.1 was changed to the following: "The AOC is defined as the area, not individual points, with a concentration of contaminants greater than background mean plus two standard deviations or MDLs."

Section 2.1.1 - In reviewing the RCRA Closure Report for B123, not all of the process waste lines were "clean-closed", which should be mentioned (the process waste lines on the eastern side of B123 were not clean-closed). In addition the RCRA closure report did not specifically mention the removal of the sump in room 125. So although the sump must have been removed during removal of the building, it can only be assumed that the removal of the sump in room 125 occurred during this previous activity, since it was not found during this ER activity. This discussion should be properly modified, and this and section 2.3 should agree.

Not all of the process waste lines are RCRA units and, as such, were not included in "clean closure" of RCRA Unit 40. Pipeline P-2, located under the northern and eastern portions of the building, is not a RCRA unit and was not included in the closure of Building 123 components of RCRA Unit 40. The RCRA components included the following:

- Aboveground pipeline;
- Pipe chases and sumps in Rooms 156, 157, and 158
- Room 125 sump; and
- Underground piping beginning in Room 158 and draining to Valve Vault 18 (RMRS 1998).

These RCRA Unit components were described in ER RSOP Notification #02-01, which was approved by CDPHE in January 2002.

The fate of the sump in Room 125 is discussed in Section 2.4, fourth paragraph.



5	Section 2.2, page 15- The project goals as presented are incomplete. The notification includes additional Accelerated Action Remediation Goals: • Provide a remedy consistent with the RFETS goal of protection of human health and the environment; • Provide a remedy that minimizes the need for long-term maintenance and institutional or engineering controls; and • Minimize the spread of contaminants during implementation of accelerated actions. Section 2.2.1 states that accelerated action goals were achieved; however, no explanation is provided for these achievements.	These goals are the overall long-term ER RSOP remedial action objectives, not project-specific goals. They are included in the ER RSOP notifications at the request of CDPHE. A new section (Section 2.8) that describes the contribution of the UBC 123 removal project to the overall long-term RAOs has been added. The accelerated action goals, which are project-specific goals, were achieved. The following text has been added: "ER RSOP Notification #02-01 accelerated action project objectives were achieved through the following: Removal of the concrete slab and associated structures; Removal of belowgrade sumps and process waste lines; and Removal of soil with contaminant concentrations greater than RFCA Tier I ALs."
	The new text for RAO 2 states removal of contaminant concentrations greater than RFCA Tier I AL minimized the need for institutional controls. Removal above Tier I does not change the need for institutional controls between the Residential 10-6 and WLRW 10-5 levels.	Institutional controls are discussed in Section 4.0 of the Closeout Report.
6	Section 2.2.1 – This section should describe how the radioactively contaminated areas left covered with steel plates and the lead area were cut out of the slab and removed at the beginning of the removal activities. Text on page 19 identifies that an unanticipated pipe was discovered during remediation and removed. For this pipeline and others, where is the information identifying the exact location and condition (depth, type of pipe, type of seal, etc.) for use in subsequent evaluations or final site documentation?	The following text was added to Section 2.2.2 under the heading Building 123 Slab, Footers, Source Pits, and Manholes: "Concrete with fixed contamination covered with steel plates was cut out of the slab using a concrete saw. The cut concrete was then removed from the slab using the excavator with bucket/thumb attachment." Pipelines have all been removed. The location of the pipelines is shown on Figure 7. The location of the pipelines was not surveyed and therefore the exact location and depth cannot be added. Additional information, including approximate depth and location and type of seal, was added to



- b) It is stated that Figure 7 shows the extent of pipeline left in place and not found. However, this is not shown on Figure 7. As such, Figure 7 needs to be modified to show this information, or appropriate references provided. Also, why don't the locations of process waste lines shown here agree with those shown on other figures, such as Figure 9? Not found, left in place?
- c) Because there are numerous mention of rooms, a figure needs to be provided that identifies the locations of the former rooms in B123. This figure should, if at all possible, include the locations of process waste lines, sumps, drains, and any other physical concerns associated with the slab.
- d) Additional unusual occurrences should be added to this section. This should include the lead liner found around the drain inside the concrete

Not having a surveyed location and depth is not a big issue if these pipes will be addressed with a later IHSS group, however if the pipes are not addressed later then the exact location and depth need to be known for the institutional control.

A revised Figure 7 was not provided.

This (Figure 2) does not provide sufficient information regarding room locations or boundaries. If D&D can provide such figures, then ER should as well.

Table 4.

This figure was changed.

Rooms mentioned in the text in regards to the RCRA units are shown on Figures 14 and 15. References to rooms and additional features were added to Figures 2 and 9.

The following text was added to Section 2.2.2, under the heading <u>Sumps and Process Waste Lines</u>: "A sheet of lead (approximately 2 feet x 3 feet x 1/8 inches thick) was encountered beneath an 8-inch- diameter drain located approximately 5 feet south of the lead-contaminated soil location. The lead sheet was observed approximately 3 inches beneath the drain."

This is understood.

A pdf of Figure 7 was provided for review and incorporated into the final document.

All rooms discussed in the Closeout Report are identified on the map. The room numbers (except those referenced) in Building 123 were not part of the accelerated action. Additionally, the Building was removed by D&D several years before the accelerated action.

	discussed within the context of the Solar Ponds risk	accelerated actions based on ALs not risk assessment criteria.
	background mean plus 2 standard deviations has been	IASAP. Actions taken in accordance with the ER RSOP are
	possible contamination is presented. Use of the	level comparisons was approved by CDPHE in June 2001 in the
	Presentation of data above the MDL ensures that all	Use of the background mean plus 2 standard deviations for action
	And/or correct Table 7.	
	analyze for radionuclides, please correct as appropriate.	•
	c) Figure 12 provides results for locations that did not	Table 7 was corrected.
	necessary.	
	10. Please identify this sample or correct the figures as	
	B123, yet this sample location is not shown on figure 9 or	
	appears to be collected on the SW side of the west side of	
	b) Figure 11 provides data for a confirmation sample that	This sample point on Figure 11 was relocated correctly.
	stated.	
	until they are defined. These needs should be explicitly	
	sampling and stewardship needs will need to be deferred	
	provided here. If the numbers do not exist, then additional	as part of the FS and Proposed Plan.
	completed at the beginning of the project, should be	RSOP. Additional stewardship needs, if any, will be determined
	PRG's or 10.6 residential risk. These values, even if not	two standard deviations in accordance with the IASAP and ER
	contamination is of concern, the comparison should be to	based on current RFCA ALs, MDLs, and background means plus
	deviations? In order to determine whether residual	comparison delineates the AOC. The stewardship evaluation is
	method detection limit or background plus two standard	standard deviations in accordance with the IASAP. This
8	Section 2.2.3 – What is the reason for comparing data to	Data is compared to MDLs or background means plus two
İ	can be more of the background.	
	then in figures that have too much other information they	
	try to label these "landmarks" sooner in the document and	
,	appropriate figure to label with these numbers. In general,	
	are not labeled until Figure 14, Figure 7 would be an	
	to are not labeled on Figure 9. On Table 4 the Pipelines	and 9.
L	Page 19, second bullet – The manhole locations referred	Room, manhole, and pipeline numbers were added to Figures 2



	assessment and the agreed upon comparison to background should be standardized in all site cleanup documents. Section 6.2.5 (page127) of the IASAP discusses use of a risk screening module in RADMS to be used on an IA Group basis. We do not see that the residual contamination data has been screened according to the Draft CRA methodology.	The risk screening module has not been developed yet. CDPHE and EPA have yet to comment on the Draft CRA Methodology.
9	Page 25, Table 6 – the headers on the Tier I & II columns are switched. This table and Figure 16 should also compare to 10-6 residential risk values even if background values are greater.	This table was corrected. Results in this table are compared to RFCA Tier I and Tier II ALs in accordance with the IASAP.
	Table 6 and Table 8 perform similar comparisons. A modified Table 8 is attached to these comments, the resource spreadsheet for the PRGs is apparently still in draft and PRGs are not calculated for all contaminants. Results exceeding the 10-6 Residential PRG are highlighted. Our analysis of these exceedances is that there are only a couple of samples that actually exceed the PRG and background, therefore no controls are needed to prevent digging on the basis of residual soil contamination. This also is an indication that the CRA is likely to indicate no risk from contamination.	Results in this table are compared to RFCA Tier I and Tier II ALs in accordance with RFCA. Results are not compared to PRGs because (1) remediation is in accordance with ALs not PRGs and (2) new ALs discussions will not be finalized until RFCA is changed. A discussion of risk is outside the scope of the Closeout Report. Additionally, as agreed to in the November 18, 2002 meeting, results from projects with addenda and/or notifications approved with current RFCA ALs will be compared to current RFCA ALs.

Section 2.3 The third paragraph gives three instances where radionuclides (Am-241, U-235, and U-238) were detected above background plus two standard deviations. This section needs to explain why these detections of radionuclides did not trigger additional analyses of RCRA hazardous waste constituents and why it is concluded that the sumps and pipelines did not leak.

b) The removal of the other pipelines, not associated with the three sumps should also be mentioned (the pipelines in the north and east side of B123). All of the process waste lines (New and Old) were included in the previous RCRA Closure activities, and are all RCRA concerns.

Additional samples were not collected in these areas because results were less than RFCA Tier II ALs, and the areas were backfilled (after the radionuclide data were received) as agreed to through the consultative process.

It was concluded, based on process knowledge, that the pipelines carried radionuclides and elevated radionuclide levels could indicate leaks from pipelines had occurred. As indicated by the data, there are several instances where radionuclide activities are greater than the background means plus two standard deviations. However, the results for americium-241, plutonium-239/240, and uranium-235 indicate maximum values ranging from 0.01 to 0.18 pCi/g greater than the background values. Uranium-238 activities range from 0.17 to 3.57 pCi/g. All results are well below RFCA Tier II values. Given the age of the pipeline and the type of material transported, it is difficult to envision an underground pipeline leak that would result in these very small amounts of radionuclides.

All pipelines removed are discussed in Section 2.2 and 2.4, not in Section 2.3. Pipeline P-2 located under the northern and eastern portions of the building, is not a RCRA unit and was not included in the closure of Building 123 Components of RCRA Unit 40. The RCRA components included the following:

- Aboveground pipeline;
- Pipe chases and sumps in Rooms 156, 157, and 158;
- Room 125 sump; and
- Underground piping beginning in Room 158 and draining to Valve Vault 18 (RMRS 1998).

These RCRA Unit components were described in ER RSOP Notification #02-01, which was approved by CDPHE in January 2002.



11	Section 2.4 - The discussion concerning the beryllium and methylene chloride should provide sufficient information to demonstrate why these analytes are not a concern. As such, if the detections of methylene chloride in the blanks indicate that this is a lab contaminant and not a site contaminant, this should be so stated, rather than implied for the reader to judge. Also, additional discussion concerning the beryllium detection should be provided to show why this is not a concern and was not remediated.	Beryllium was reported at sampling location SS306793 at concentrations of 0.16 mg/kg greater than the RFCA Tier II AL. This result was below the MDL of 5 mg/kg and, therefore, cannot be used reliably. This result was included because it was above background. Additional text was added to section 3.1.5 clarify the beryllium and methylene chloride discussions.
	Please include a reference to the new section where text is added when revisions to the document change its location. The lab MDL for Beryllium was supposed to be 0.2 mg/kg in Table E-4 of the IASAP. Lab problems causing higher detection limits or lab contamination should be discussed in the QA QC section.	This sample was collected in 1993. The MDL at the time of sample analysis is shown on Figure 3. Because this sample was collected in 1993 when the laboratory requirements were different, it does not have the same MDL as those listed in the IASAP which are for data collected in accordance with the IASAP.
12	Section 2.4.1 - contains an admirable start on capturing the stewardship information. Figure 16 and Table 8 provide an excellent presentation of known information. Additional information is needed to determine the exact final location of the sampling points, including survey information and whether the sampling location was covered with topsoil and is now buried at an unspecified depth beneath the topsoil applied to the site.	Survey, depth, and additional cover information were added to a new table, Table 4.

Any pipes remaining within the IHSS group footprint The survey, depth, and additional cover information were added should have been characterized. to a new table - Table 4 in accordance with the original comment request. What is the remaining problem? Through the consultative process, CDPHE concurred with the What is required to address it? decision to leave the remaining pipelines in place. A significant issue that resulted in leaving one pipeline in place at IHSS Group 100-4 was the overhead pipelines at the southern end of the site. Remaining problems, if any, and requirements for addressing remaining problems cannot be determined at this time. The following text was added to Section 2.2.2: "One to the south of UBC 123 and one to the east." 13 It is unclear whether the recommended stewardship The stewardship actions were directed at remaining pipelines, actions are really necessary. Does the residual which are approximately 5 feet below the surface. It is not contamination require management? Is it necessary to known yet whether the remaining pipes are contaminated. Soil prohibit activities in this area because of residual disturbance is restricted because potential contamination at the contamination? If so, what area does this restriction apply pipes is unknown. to? Are the pipes left in place contaminated? What types of activity are restricted? In the long-term, is federal The need for long-term monitoring will be addressed in the Long-Term Stewardship Plan. Costs for additional remediation or ownership required and why? What long-term monitoring monitoring cannot be developed until after the Long-Term is needed and why? The notification identified land use Stewardship Plan is in place. restrictions to prevent soil excavation. Are these necessary or not? If so, to what extent? Is it necessary to maintain a soil covering over the area, and if so, how much? Would additional soil removal eliminate these long-term requirements? If so, where is the justification, including costs, showing that leaving the material is appropriate?

_	6	=	_
	9	_	۷

14	Section 2.4.1 - Table 8 - The Tier 1 and 2 headers are incorrect, please switch.	This table was corrected.
15	Section 2.5 - VOC samples should be added to the analyte list for sample BV38-0001 when it is collected as it is closest to the well 10498 which has hits of PCE. As sampling upgradient of this well did not include VOC's the area may require further investigation if the hits in well 10498 continue. b) It is mentioned that two planned confirmation samples were not collected, but there is no mention of the other three samples that were not collected, nor is there any discussion of other samples that were collected or changes in proposed sample locations. Please provide an appropriate explanation of all deviations (see Figure 9).	VOCs were not sampled for at location BV38-0001 and cannot be added to the list. This confirmation sample was not collected because the pipeline was not excavated at this location. Potential groundwater contamination will be addressed through the IA plume remediation. A new table, Table 8, presents the planned versus actual sampling locations.
16	Section 2.6 - The purpose of this section is unclear. As written it describes the actions taken very briefly, but does not indicate the current condition of the area. This might be a good place to define the arrangement and location of sealed pipe ends, proximity to adjacent IHSS's that may require action, etc. It should identify the current site conditions, rather than a recap of the activities to date. This should include the location, depth, and condition of all remaining infrastructure, concrete, asphalt, pipes, drains, conduits, tanks, wells, etc. Depth of remedial activities/disturbed soil. Presence (location, depth, and levels) of any unremediated contamination or possible contamination, as well as proximity to adjacent IHSS's that may require action. Type, depth and extent of any fill material placed at this site, including topsoil	Residual contamination information has been added to this section (Now Section 3.1.5), and it has been moved to precede the Stewardship Evaluation section.



17	Section 2.7 – Stockpiled soils that are returned to the excavation become part of the residual contamination analysis if they have results exceeding 10 ⁻⁶ residential risk or background. Please provide a discussion regarding the management and disposal of the lead contaminated concrete (lead liner found inside the concrete) found in the slab on the north side of B123. There should be some mention of this and appropriate disposal as RCRA waste or LLMW. This should also be reflected in Table 9.	Stockpiled soil with analytical results greater than background means plus two standard deviations was returned to the excavation and added to the residual contamination analysis and map (was Figure 16 – now Figure 17). The lead liner found inside the concrete was disposed of as LLMW, along with process waste pipes. This information was added to Section 2.6, Waste Management.
18	Section 2.8 – Is vegetation monitoring being conducted for re-vegetated sites? It does not appear that any of the Canada bluegrass has sprouted.	Revegetation at the UBC 123 site is being monitored. However, as evidenced by past remedial actions, it can take 2 years or more for vegetation to fully establish. The persistent drought conditions have not been conducive to seed germination or plant growth, and all seeding and revegetation actions are on hold until drought conditions abate.
19	Figure 17 – Please provide details of pipes left in place, depth, exact location and condition, type of pipe, type of seal, etc.	The following information was added to Section 2.2: type of pipe, type of seal, and condition where known. Also see response to comment number 6.
	Section 2.5.5 - The discussion regarding remaining pipelines does not appear to agree with figures 18 and 17, or the initial condition/locations of pipelines as shown on other figures, such as Fig 2. There do not appear to be any pipelines extending east then north from Manhole 3. There should also be mention of manhole 4 and the pipeline extending north from manhole 4, as well as the pipelines extending west from manholes 3 & 4, as shown on Fig18. This discussion and that shown on the figures must agree.	Pipelines were eliminated from Figure 18 (now Figure 16) at the request of CDPHE because the Figure 18 (now Figure 16) was too busy.

20	Page 44 Table 10 – Although the soil is sampled under the waste program if it is put back in the excavation it should be included with samples in Table 8 rather than here.	Soil disposed of offsite is not included in residual contamination. Soil stockpile results greater than background means plus two standard deviations or MDLs were added to Table 8 and Figure 16 (now Figure 17).
21	Section 2.9 - Figure 18 needs to be modified to prevent confusion. The legend needs to include the sampling locations and not the line descriptions, which appear to be erroneous. If they are not erroneous, please explain the discrepancies between this figure and the previously presented information. The pipelines should be removed and only the excavated areas identified along with the sampling locations. However, all of the excavated areas that would effect the old samples should be shown, but only the shallow samples would be effected by the excavations, the deeper ones may not be effected. Excavations also occurred to remove the foundation, footers and other pipes.	This figure was changed.
	The legend on Figure 18 does not identify the color-coding for the pipes. Figure 18 - What is the extra line going south from B123 (manhole 2) to VV18? Only one line is identified on other figures.	Pipelines were removed from Figure 18 (now Figure 16). Please reference Figure 7. Two lines, one NPWL and one OPWL were at this location. The NPWL was removed, the OPWL was not.
22	Section 2.10.1 – the put-back soils need to be included in the SOR calculation.	The put-back soil was included in the SOR calculation (Table 7) and on Figure 16 (now Figure 17).



23	Page 51, Table 12 – what is "pipe scale", please describe. Why did water samples sent to Laboratory 559 have a high reporting limit?	Pipe scale is the easily removable material that formed on the inside of the pipe. The 559 Laboratory is used for quick count time analysis of relatively "hot" samples, not environmental samples where low detection limits are needed. As a result, their detection limits are typically higher than those provided by (environmental) offsite laboratories with longer count times.
24	Section 3.0 – The report indicates that PCBs were burned in the security incinerator and that potential chemicals of concern (PCOCs) at the site are dioxins, furans, and PCBs. As discussed above, several PCB congeners are classified as exhibiting dioxin-like properties. Therefore, when calculating a dioxin-equivalent concentration, it is important to recognize/include the contribution from this class of chemicals. However, at this site, only dioxin and furan congeners were incorporated into the TEQ approach. It would be appropriate to include the dioxin-like ones into this approach, or provide a reason as to why they were not evaluated. The TEFs utilized in this approach were obtained from the 1994 SW-846 Method 8290. These should be replaced with the values established in 1998 by the World Health Organization (WHO). The WHO values have been recently used by EPA Region 8 and CDPHE to assess dioxin and dioxin-like compounds in surface soils at numerous locations in the Denver Front Range Area and at the Rocky Mountain Arsenal. The WHO values are	The PCBs within the PCOCs at RFETS consist of PCB mixtures, specifically, several of the Aroclors (for example, Aroclor 1016 and several of the 1200 series), and not the congeners listed in the referenced table. As a result, the PCB samples were analyzed for, and results compared with, the RFCA-stipulated PCBs and not individual congeners. For dioxin/furans, the TEFs given in SW8290 agree with those published by the WHO, with the exceptions of OCDD and OCDF, for which the WHO numbers are an order of magnitude less than those in SW8290. Use of the WHO numbers would result in smaller overall values (by an order of magnitude) for OCDD and OCDF congeners. These corrections have been incorporated into Table 20.
	available in the following reference: Van den Berg, M. et al. 1998. Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and	



Wildlife. Environmental Health Perspectives 106: 775-792.

The language used in Section 3.2 to describe the TEO process is confusing and should be clarified. The value of 9, refers to 9 ppt (pg/g) dioxin which was calculated as a surface soil PRG for a wildlife refuge worker. The fact that this value is a PRG should be specified in the document. Referring to it simply as 9 toxicity equivalents is inappropriate, since the units and derivation of the value are missing. Additionally, the text indicates that the dioxin/furan TEQ was compared directly with the TEQ of 9 in Table 18. Whereas, congener-specific TEQs are provided, no comparison is shown and furthermore this comparison should not be on a congener specific basis. but should be on the sum of all congener specific TEOs. The text should be revised to indicate that the total TEO (sum of all congeners) was higher/lower than the 9ppt PRG value.

According to Figure 20, the maximum concentration of each congener was not used in Tables 17 & 18. For example, the maximum concentration of OCDD is presented as 180 pg/g in the tables, however, a maximum of 290 pg/g is observed in Figure 20 at location BT39-A003. This occurs for several congeners, resulting in an underestimation of the presented TEQ concentrations.

Table 18 should be expanded to include the sum of all congener-specific TEQ values. This sum is the Total TEQ for the mixture and is the value that is comparable to the health-based value. The comparison should not be performed on a congener-by-congener basis, since it is the

Values used for comparative purposes were derived from E. Pottorff correspondence (e-mail) dated January 25, 2002. The proposed PRGs have not yet been formally presented to the public (through the public comment process) or incorporated into RFCA. Until proposed PRGs are formally incorporated into RFCA, reference to PRGs in this document is premature.

The text was revised to compare only dioxin results with the 9 ppt. TEQ summation values are provided, per sample, in Table 21, but are not compared to an AL, because one does not currently exist.

The following text was added: "All summated TEQ values are well within the cited Front Range background range of 0.1 to 155 TEQ."

Table 17 (now Table 19) was corrected. Results were deleted from Table 18 (now Table 20) and the congeners were summed and presented in Table 21.

The sum of dioxin and furan congener TEQs, by sampling location, is presented in a new table, Table 21. The following text was added to Section 6.2: "The TEQ values for dioxin congeners are summed for each sampling location and the TEQ values for furan congeners were summed for each sampling location. These data are presented in Table 21. As shown in



total dioxin equivalent concentration that is the decision basis.

Table 21, there are no exceedances of the 9 ppt TEQ for the summed dioxin compounds."

Table 17 & Table 18: The units of concentration for the PCDDs and PCDFs should be provided.

Units were added to Table 17 (now Table 19). The column of maximum values on Table 18 (now Table 20) was deleted.

Table 18: TEF values are unitless (ie., NOT pg/g)

Table 18 (now Table 20) was corrected.

Recognizing that the dioxin-like PCB congeners were not analyzed, a discussion of the uncertainty stemming from the lack of these values should be provided. The Front Range dioxin study (EPA 2001) has shown that the PCB congeners can contribute 20% or more of the total TEQ in ambient soil samples. Therefore, values based on dioxin and furan congeners alone may only represent a portion of the actual risk. This uncertainty should be acknowledged somewhere in this document.

Analytical requirements and MDLs were determined by CDPHE. A discussion of PCB risk and its uncertainty is beyond the scope of the Closeout Report.

The other value that changes using the WHO values is for 1,2,3,7,8-PeCDD, which increases from 0.5 to 1.0. The table and resulting values should be updated to reflect this change.

This value was corrected in Table 20 and the resulting values were changed in Table 21.

Regardless of whether this value is referred to as a PRG or not, the basis for the derivation of the value (eg., surface soil ingestion for a wildlife refuge worker) should be provided. The units of ppt for the first reference of 9 toxicity equivalents (Section 3.2.1) need to be added.

A discussion of the derivation of the soil ingestion values for the wildlife refuge worker is not appropriate in this document because a discussion of risk and the derivation of ALs or PRGs is beyond the scope of this document.

I was unable to locate a discussion in the text that compared only dioxin result (2,3,7,8-TCDD) with the 9

Ppt was added to all occurrences of 9 TEQ.

The following text was added: "Additionally, the maximum 2,3,7,8-TCDD TEQ of 6.8 ppt was less than the 9 ppt TEQ



ppt TEQ value.

Units of ppt need to be included when referencing the Front Range data. Also, please include a reference (EPA, 2001) for this data source. It should be noted that the range of values is for the sum of CDD and CDF congeners. Lastly, in the Front Range document, it was determined that two of the high concentrations were outliers. The revised range is 0.1 to 57.5 ppt. Technically, these should not be referred to as background concentrations, but rather ambient concentrations.

The overall TEQ approach seems to be misinterpreted in this section, therefore, the following provides a brief summary. The term "dioxin" refers to a group of chemical compounds that share certain chemical structures and mode-of-action biological characteristics. A total of 30 of these dioxin-like compounds exist and are members of three closely related families: the chlorinated dibenzo-p-dioxins (CDDs), chlorinated dibenzofurans (CDFs) and certain polychlorinated biphenyls (PCBs). As a result, EPA and others use an approach that adds together the toxicity of individual dioxins (congeners) in order to evaluate complex environmental mixtures to which people are exposed. Because dioxins differ in their toxic potential, the toxicity of each component in the mixture can be accounted for by applying a Toxicity Equivalency Factor (TEF). Using these factors, the toxicity of a mixture can be expressed in terms of its Toxicity Equivalents (TEO), which is the amount of 2,3,7,8-TCDD it would take to equal the combined toxic effect of all the dioxins found in that mixture. The resulting TEQ value is the sum of ALL dioxin-like

value."

Ppt was added to the Front Range data discussion. This information was derived by CDPHE.

The background values were provided by CDPHE in an e-mail form E. Pottorff dated January 25, 2002 and stated the following: "EPA recently published the results from the RMA Denver Front Range Dioxin Study (U.S. EPA Region 8, July 2001). The background study of the fine fraction of 162 front range soil samples ranged from 0.1 ppt (parts/trillion) to 155 ppt TEQ."

Thank you for the detailed information on PCBs, dixons and furans.

The sum of the CDD and CDF values for each sampling location was added to Table 21. Additionally, the text was changed as follows: "Results at one location, BT39-003 indicate a value of 10.87 for the summed dioxin and furan congeners. While this

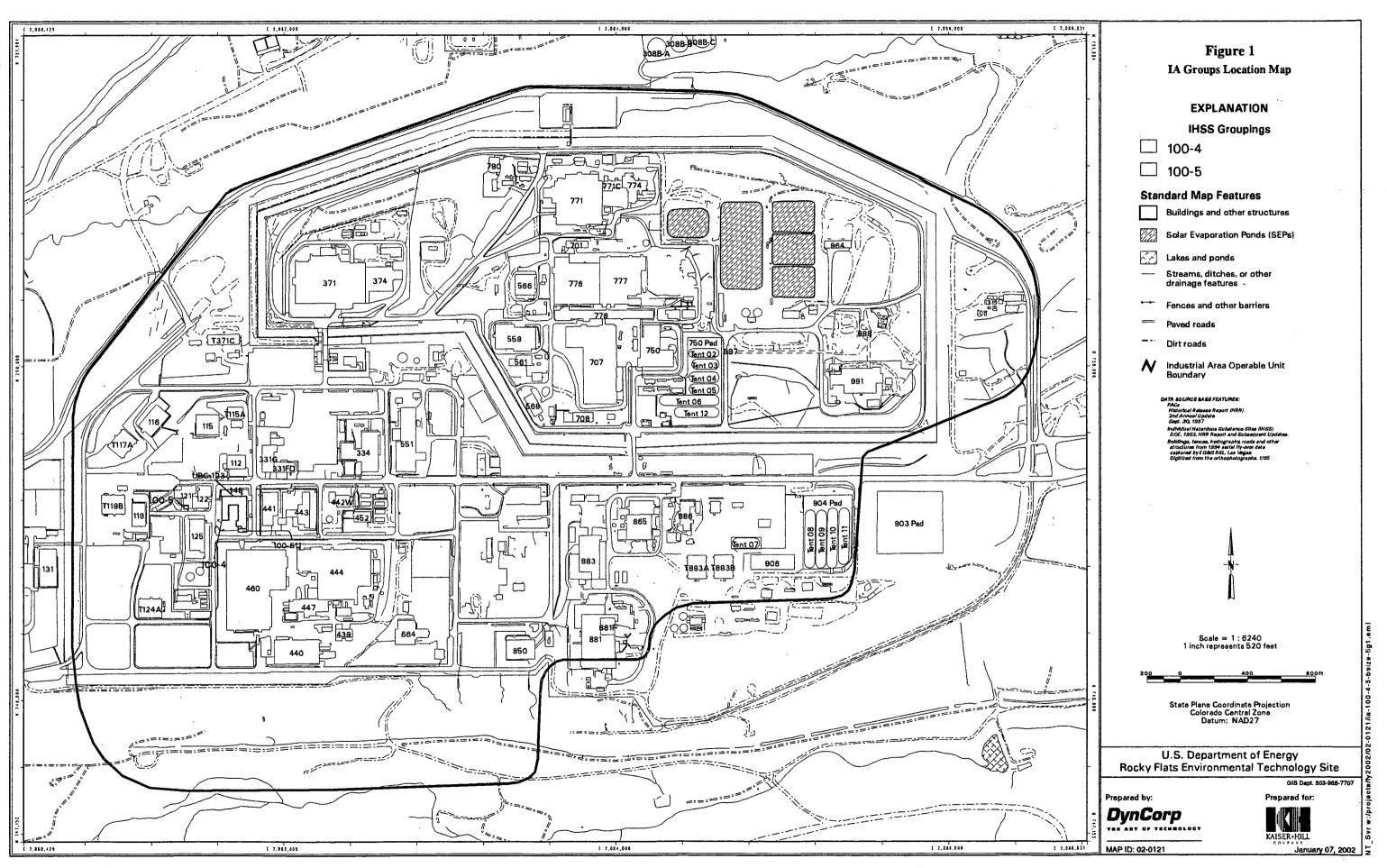


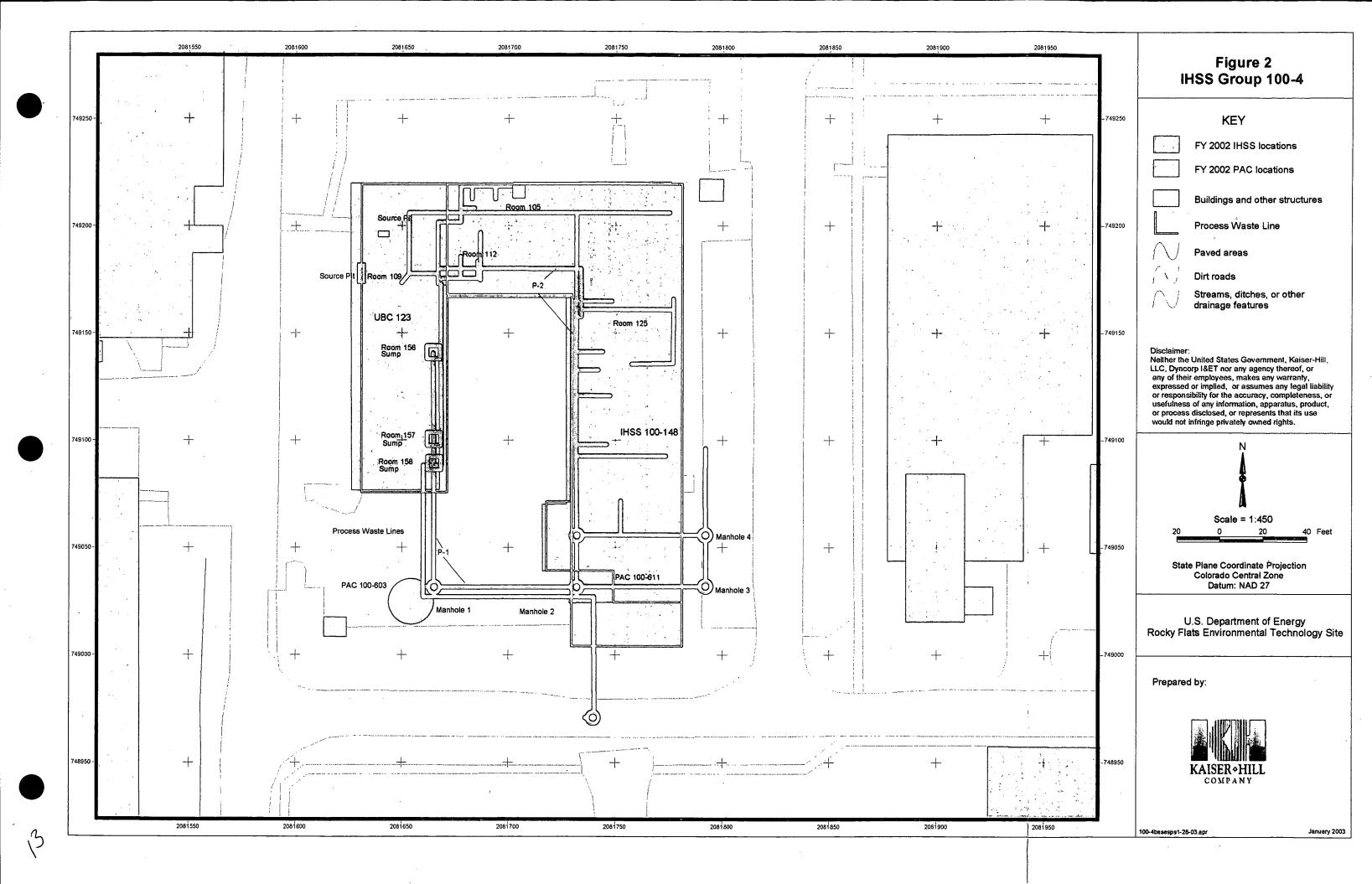
	congeners found in a sample. Although presenting the TEQ for CDDs and CDFs separately allows the reader to see which family constitutes the majority of the toxicity, these values require summation prior to comparison with a reference value (e.g., 9 ppt). Therefore, in order to appropriately assess the overall risk from dioxins, an additional column in Table 21 should be added, which provides the sum of the CDD and CDF values.	value is slightly greater than the reference value of 9ppt TEQ it as well as all other summated TEQ values are well within the cited Front Range background range of 0.1 to 155 ppt TEQ.
25	Appendix B – The analytical method column lists HPGe rather than Gamma Spectroscopy, isn't there a difference between these methods? Unrelated sample results seem to be included after the second page of 100-611 data, they appear to be from the 886 and 889 sampling. Please provide replacement pages for all of the pages with over typing on them. This includes pages 9, 10, 12, 13, & 14 of the UBC 123 data.	HPGe is the crystal used in gamma spectroscopy and is frequently used as an abbreviation for gamma spectroscopy. The pages with data from other IHSS groups were deleted. The pages with overprinting were reprinted.

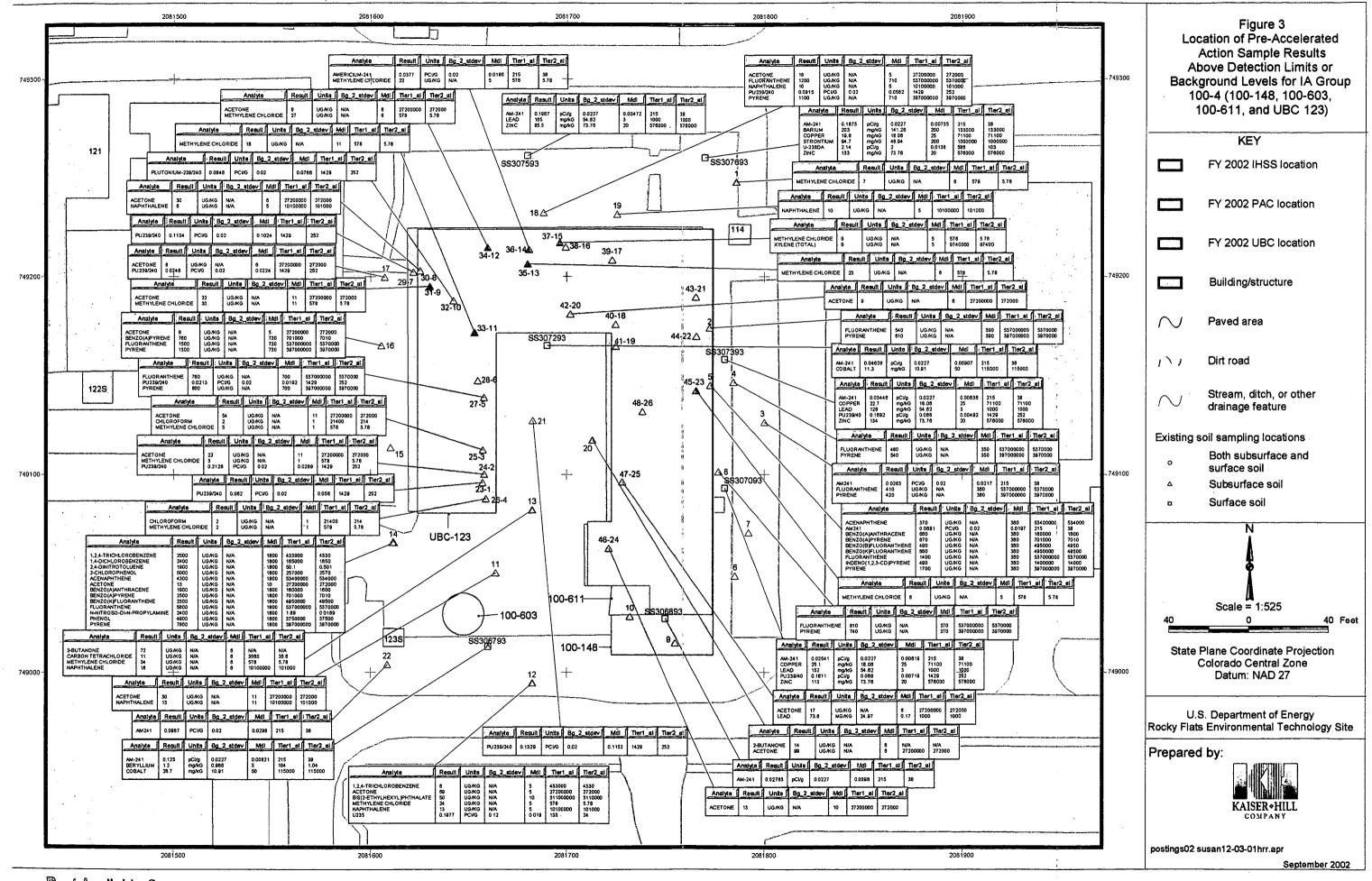
APPENDIX E PROPOSED RFCA ACTION LEVEL COMPARISON

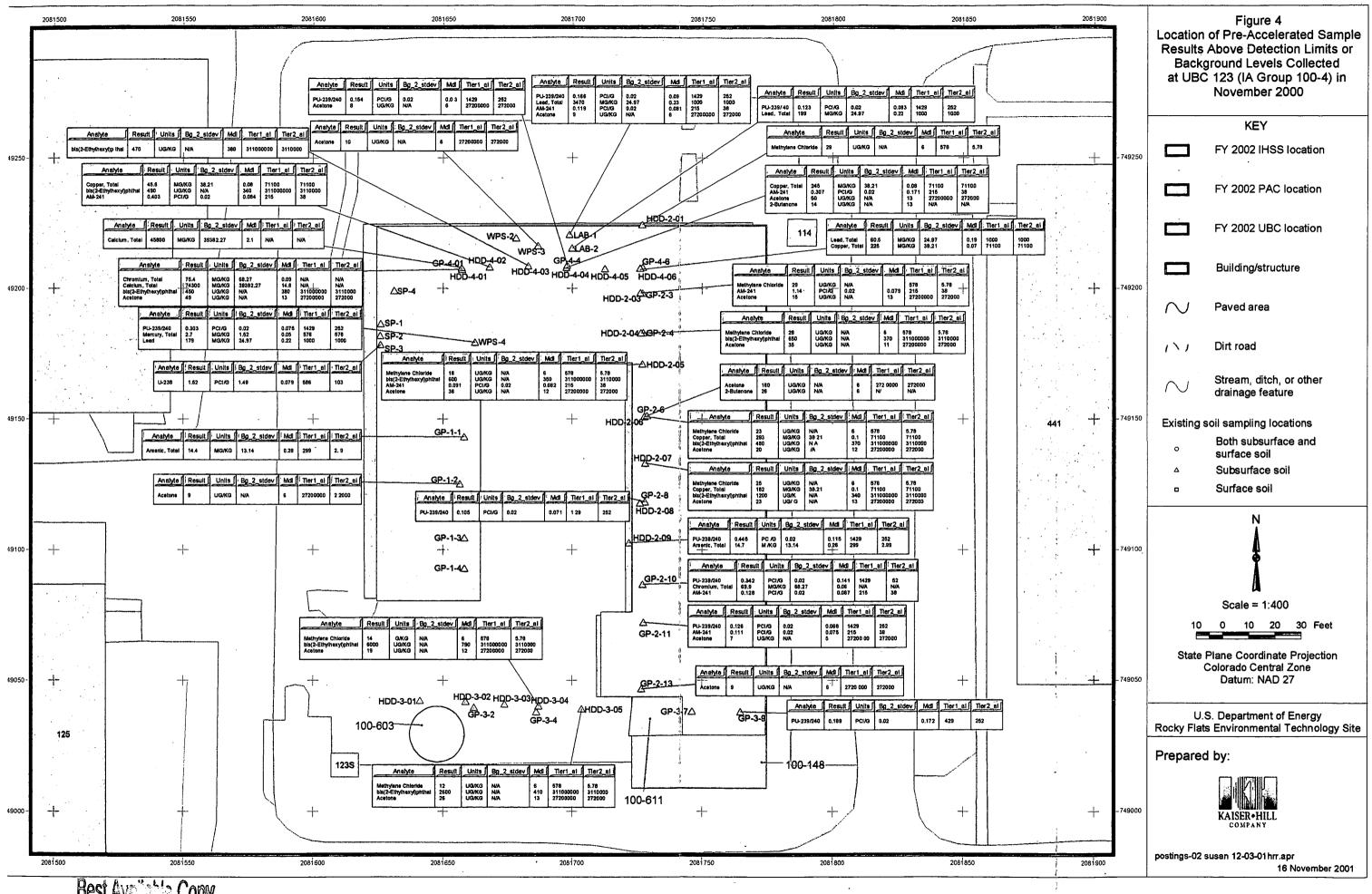
Appendix E IHSS Group 100-5 Proposed RFCA Action Level Comparison

IHSS	IHSS/PAC/UBC Site	Analyte	Maximum	MDL	WRW AL	Eco AL
Group			(μg/kg)	(µg/kg)	(μ g/kg)	(μg/kg)
100-5	100-609 – Security Incinerator	Aroclor-1016	19.5	<.069	46400	.
		Aroclor-1221	ND	<.069	12400	-
		Aroclor-1232	ND	<.069	12400	_
		Aroclor-1242	23	<.069	12400	_
		Aroclor-1248	42	<.069	12400	_
		Aroclor-1254	30	<.069	12400	-
		Aroclor-1260	17.5	<.069	12400	_
		Analyte	Maximum (pg/g)	RDL (pg/g)	WRW AL (pg/g)	Eco AL (pg/g))
		1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	33	<.22	NA	NA
		1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	6.2	<.22	NA	NA
		1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	0.34	<.22	NA	NA
		1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.23	<.22	NA	NA
		1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	1.5	<.22	NA	NA
		1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	1.2	<.22	NA	NA
		1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	1.2	<.22	NA	NA
		1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	1.2	<.22	NA	NA
		1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	1.2	<.22	NA	NA
		1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	0.82	<.22	NA	NA
		1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	4.3	<.22	NA	NA
		2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.82	<.22	NA	NA
		2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	1.9	<.22	NA	NA
		2,3,7,8-Tetrachlorodibenzofuran (TCDF)	12	<.22	NA	NA
,		2,3,7,8,-Tetrachlorobibenzodioxin (TCDD)	6.8	<.22	NA	NA
		1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	290	<.22	NA	NA
		1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	16	<.22	NA	NA

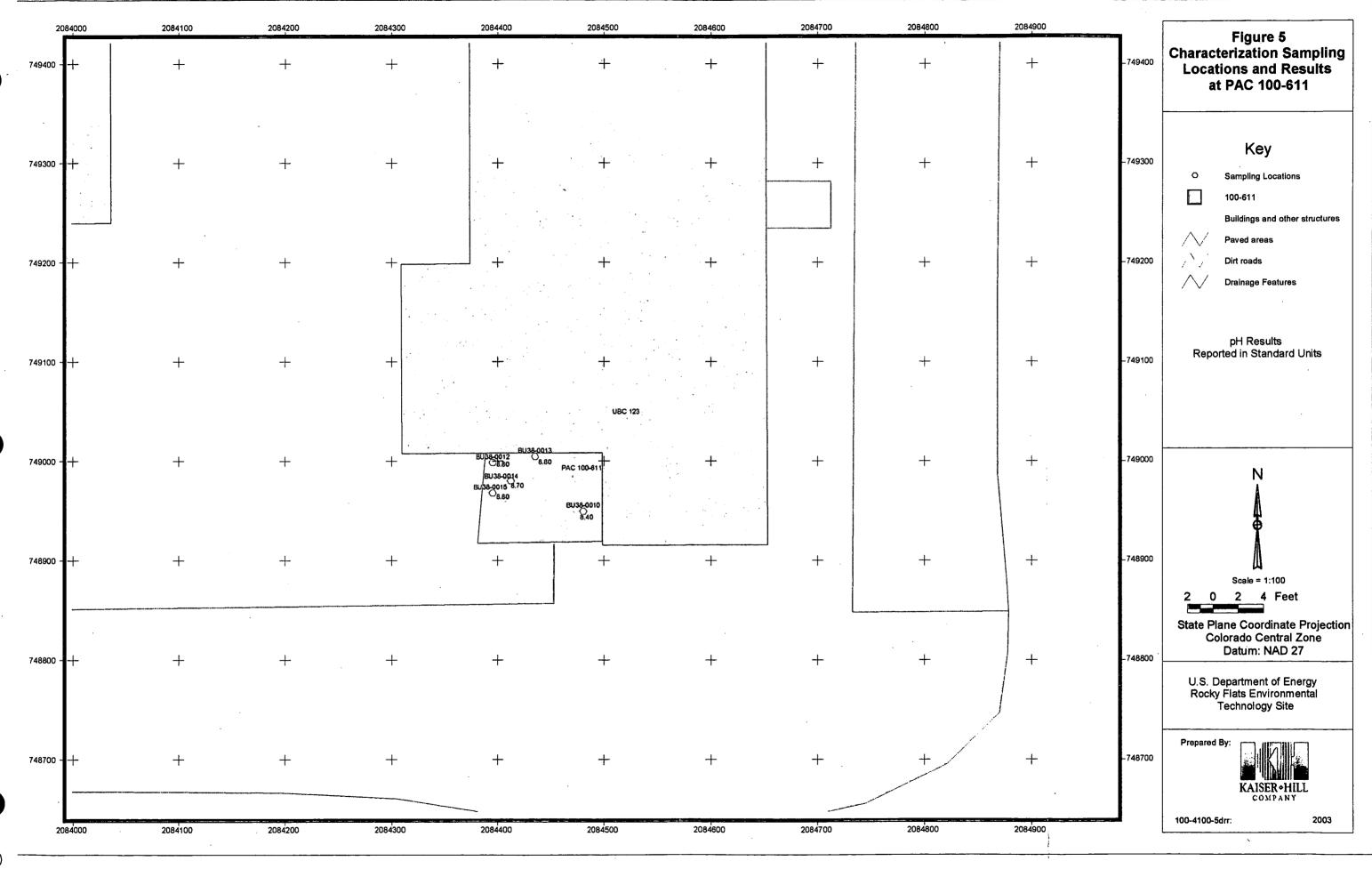


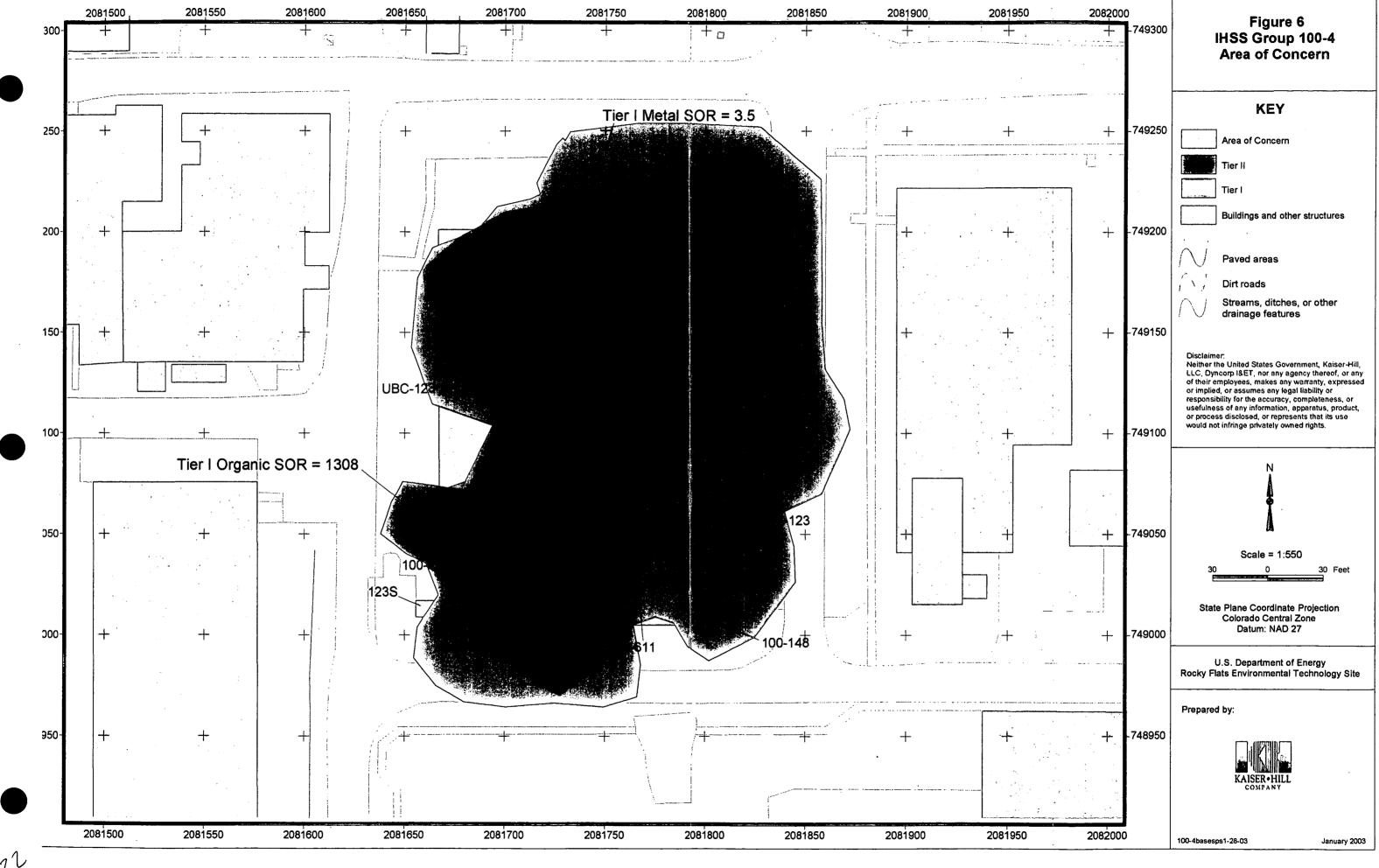


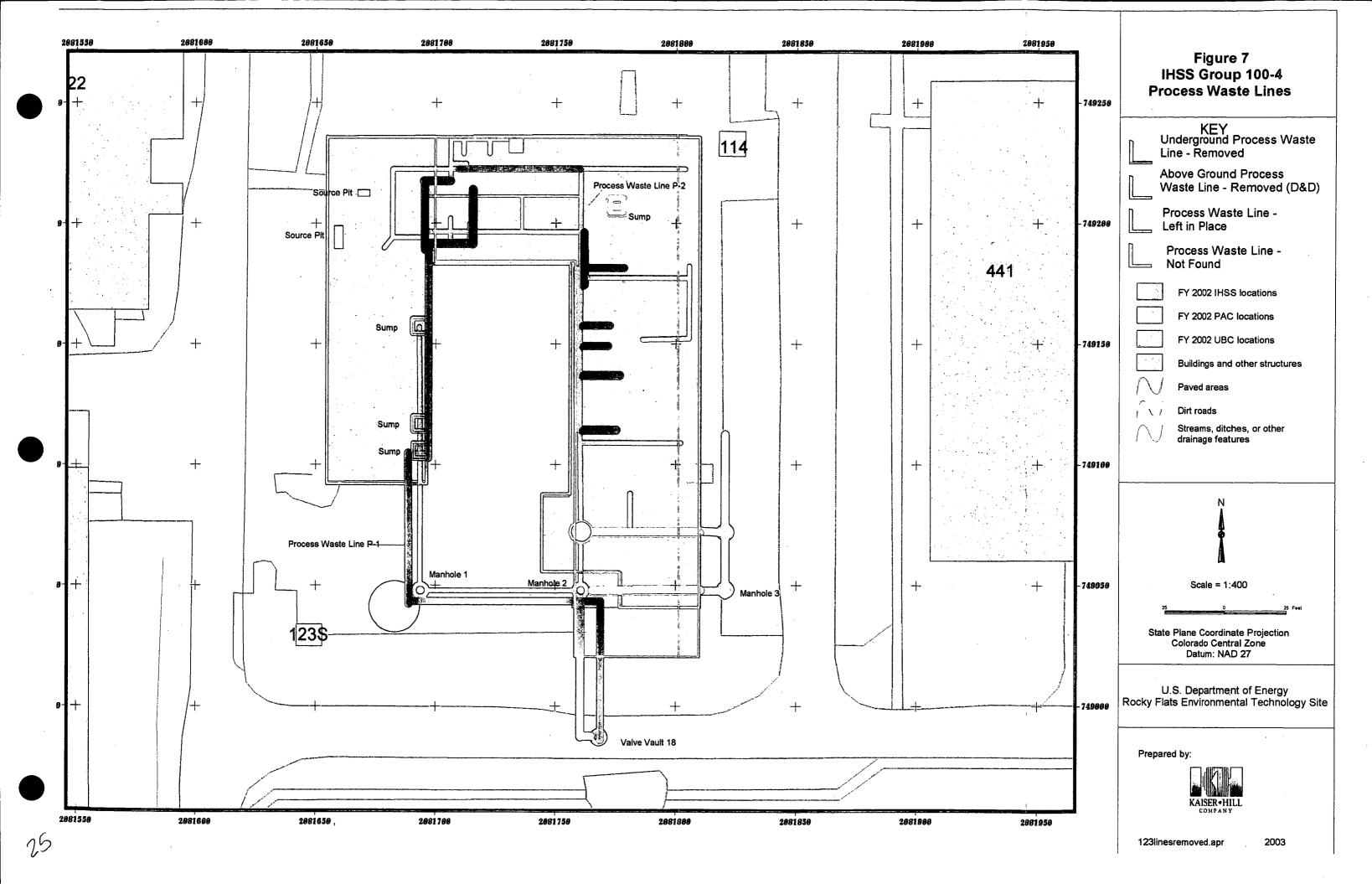


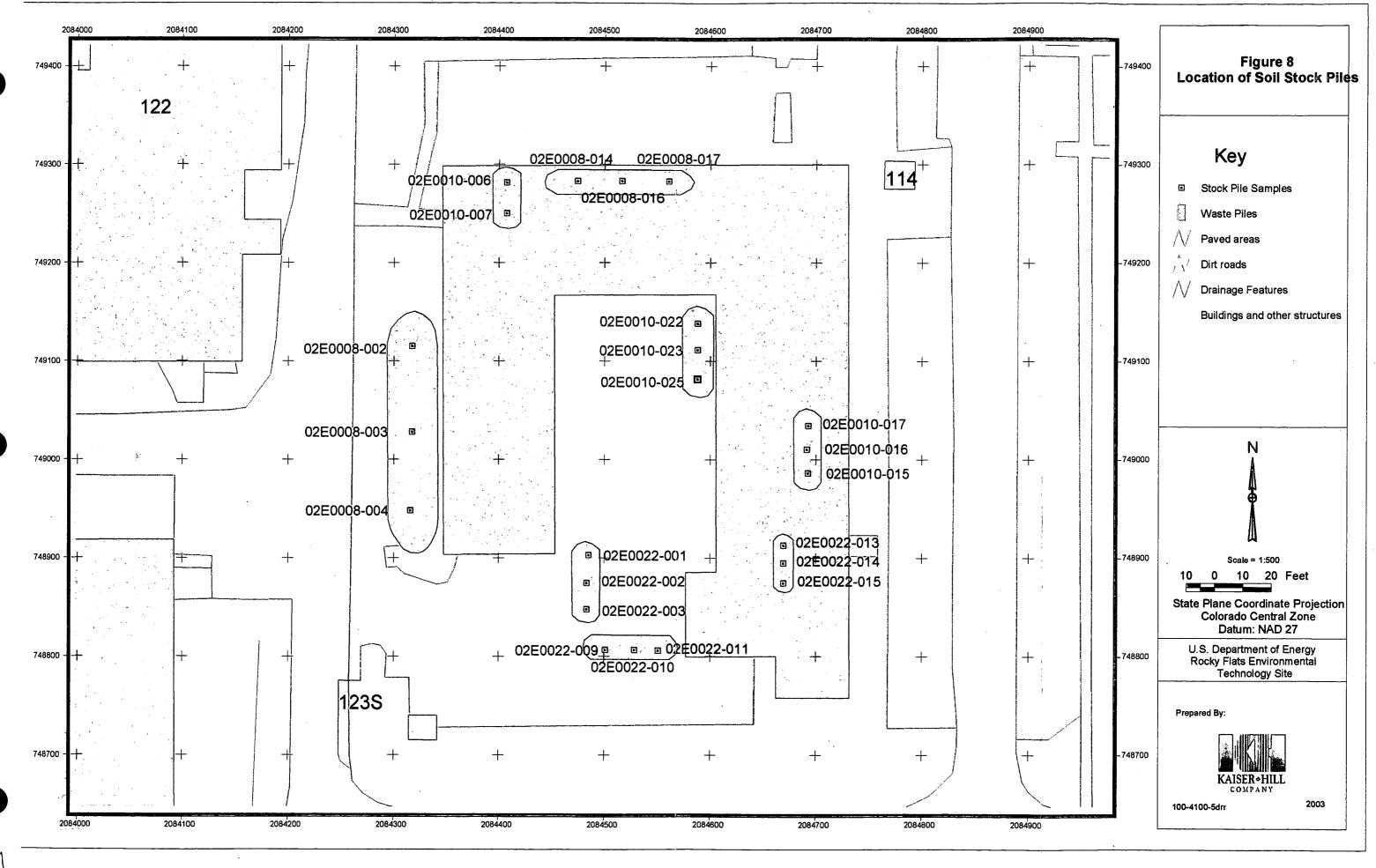


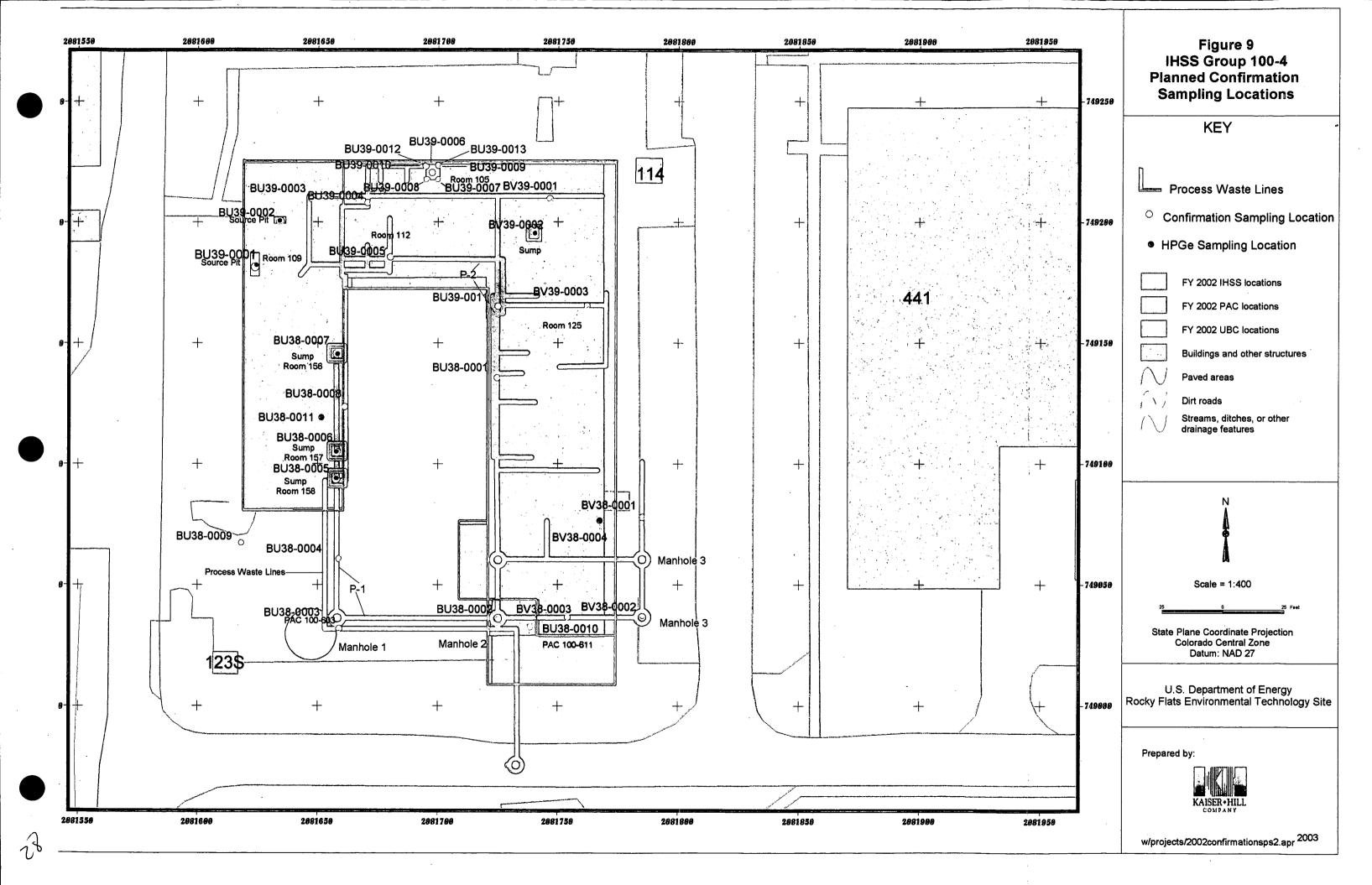
Best Aveilable Copy

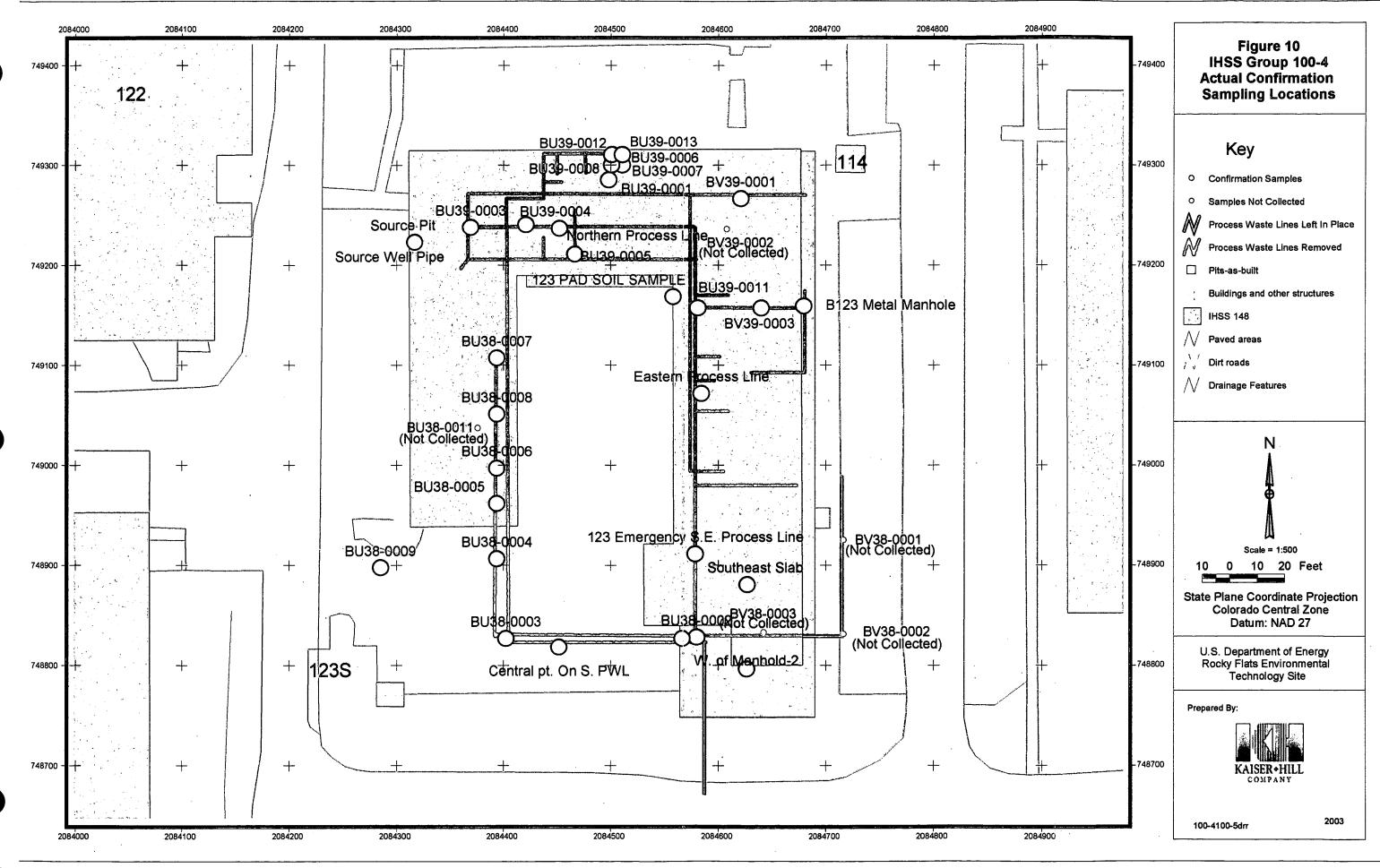


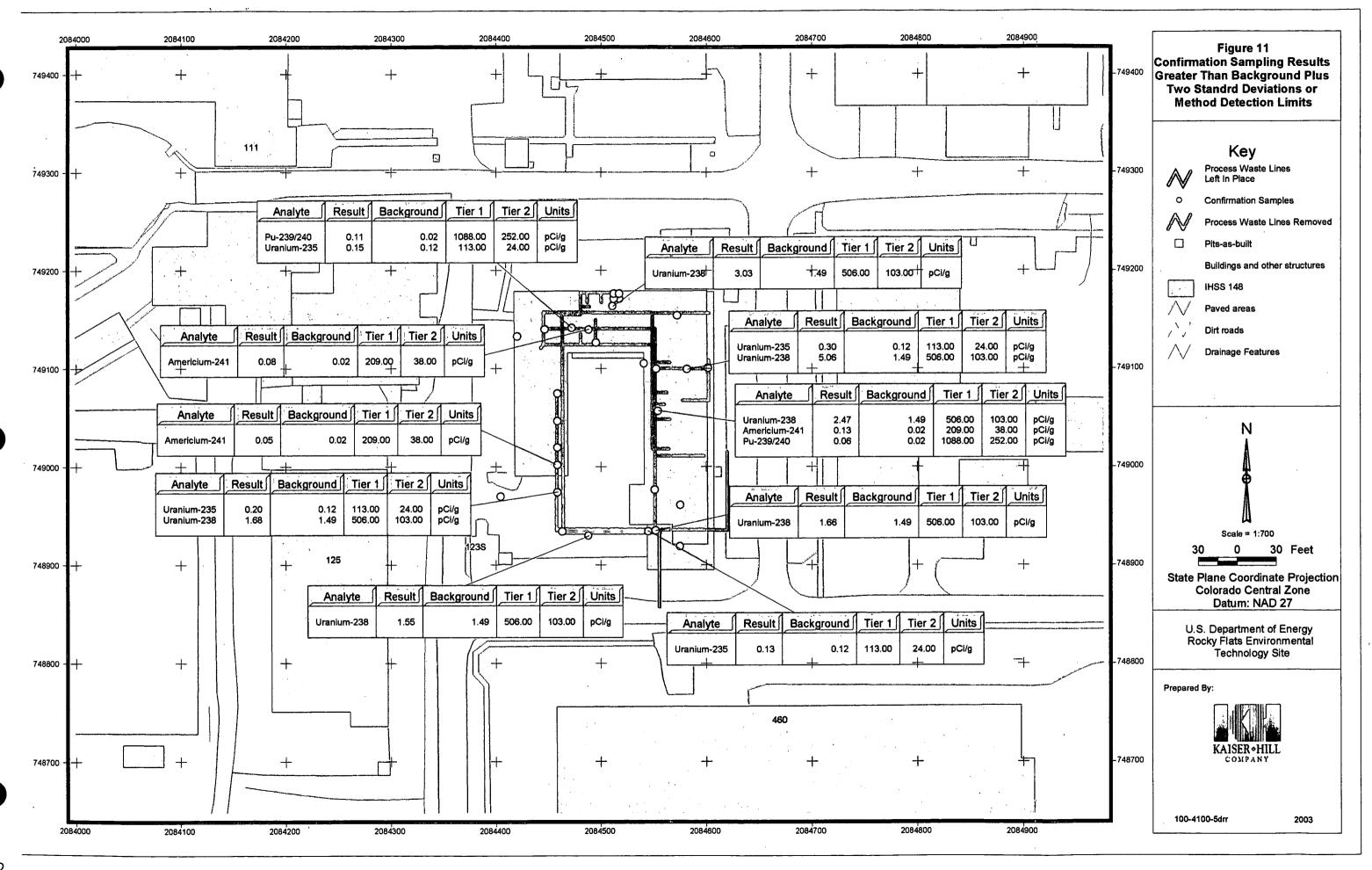












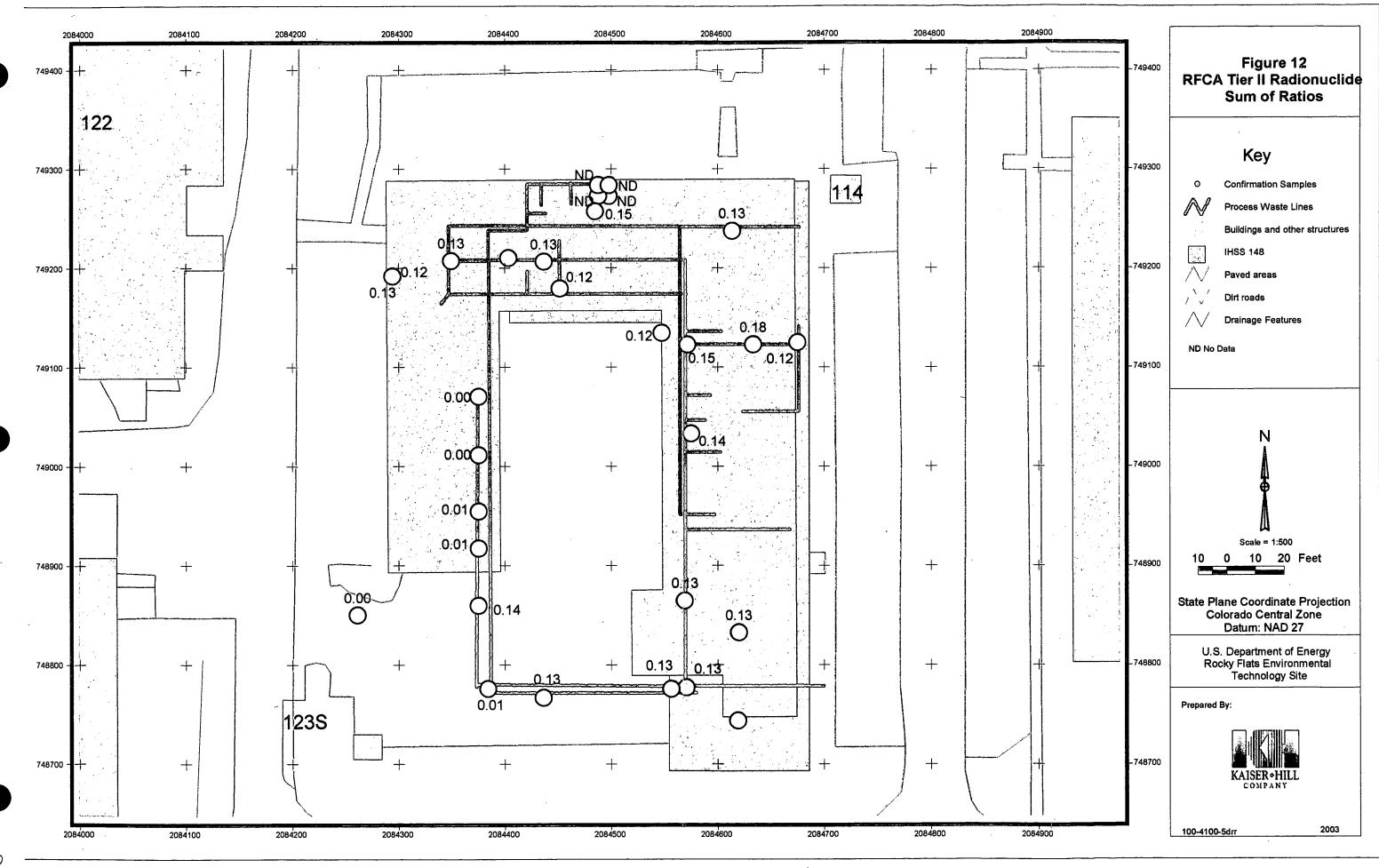
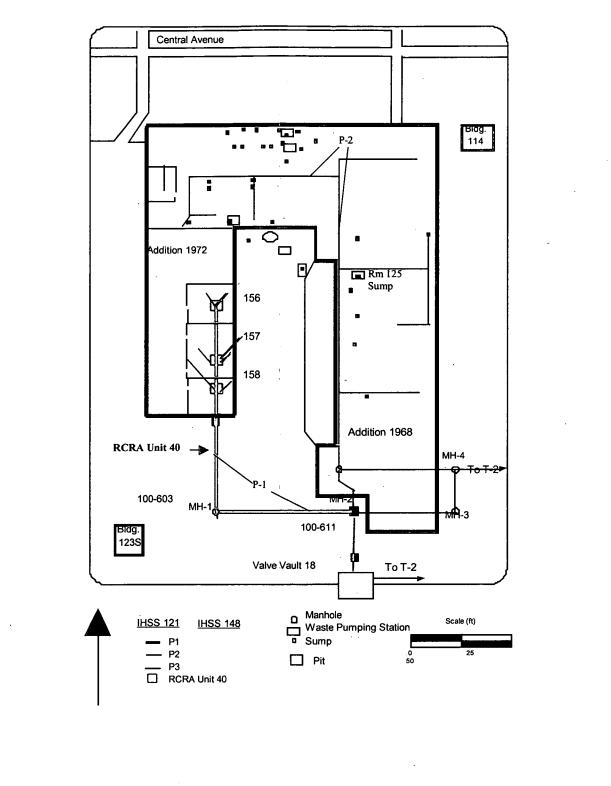
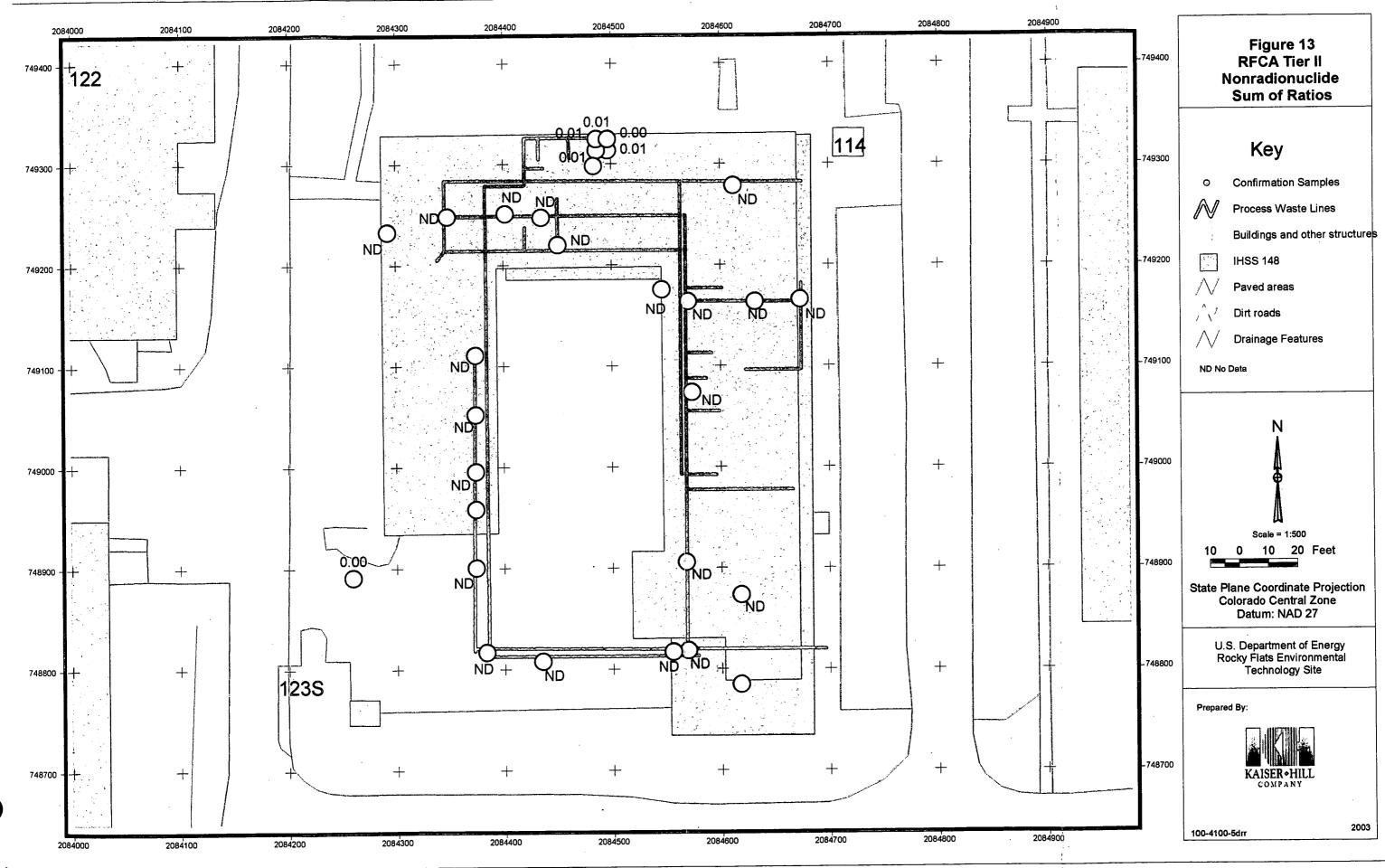
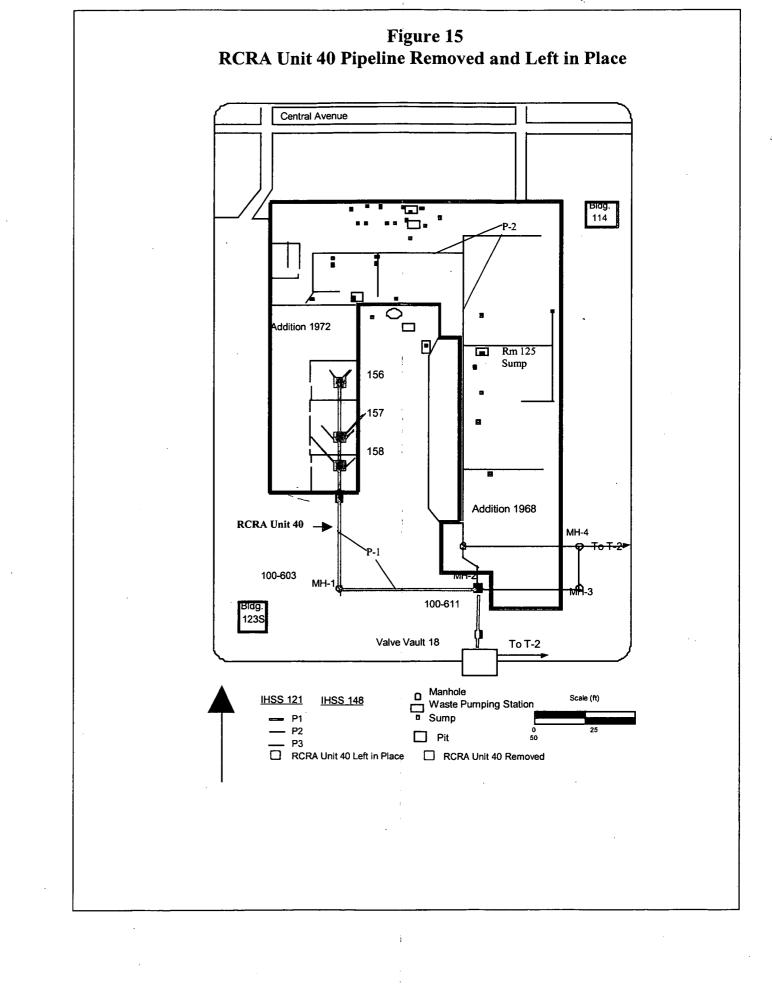
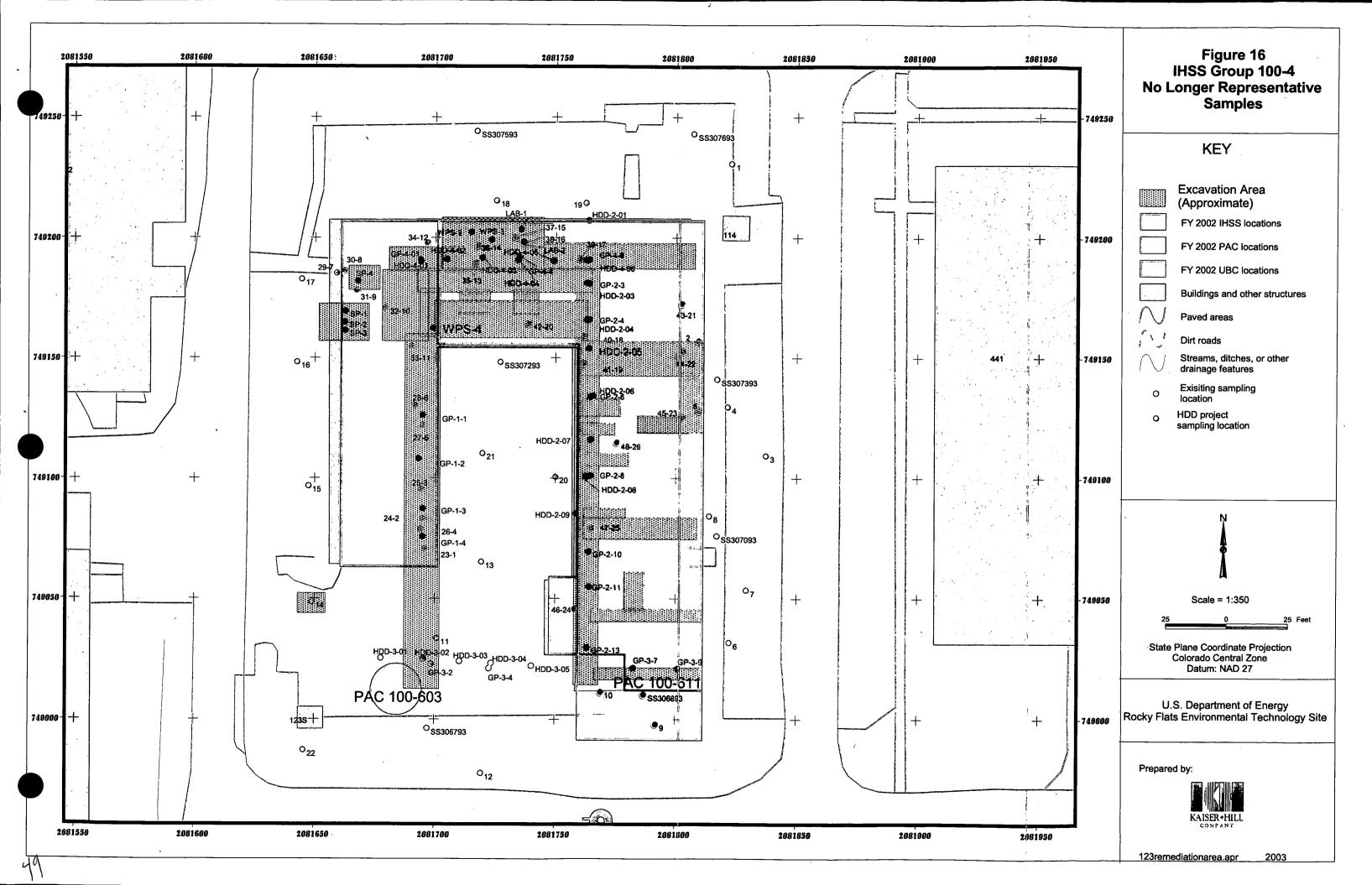


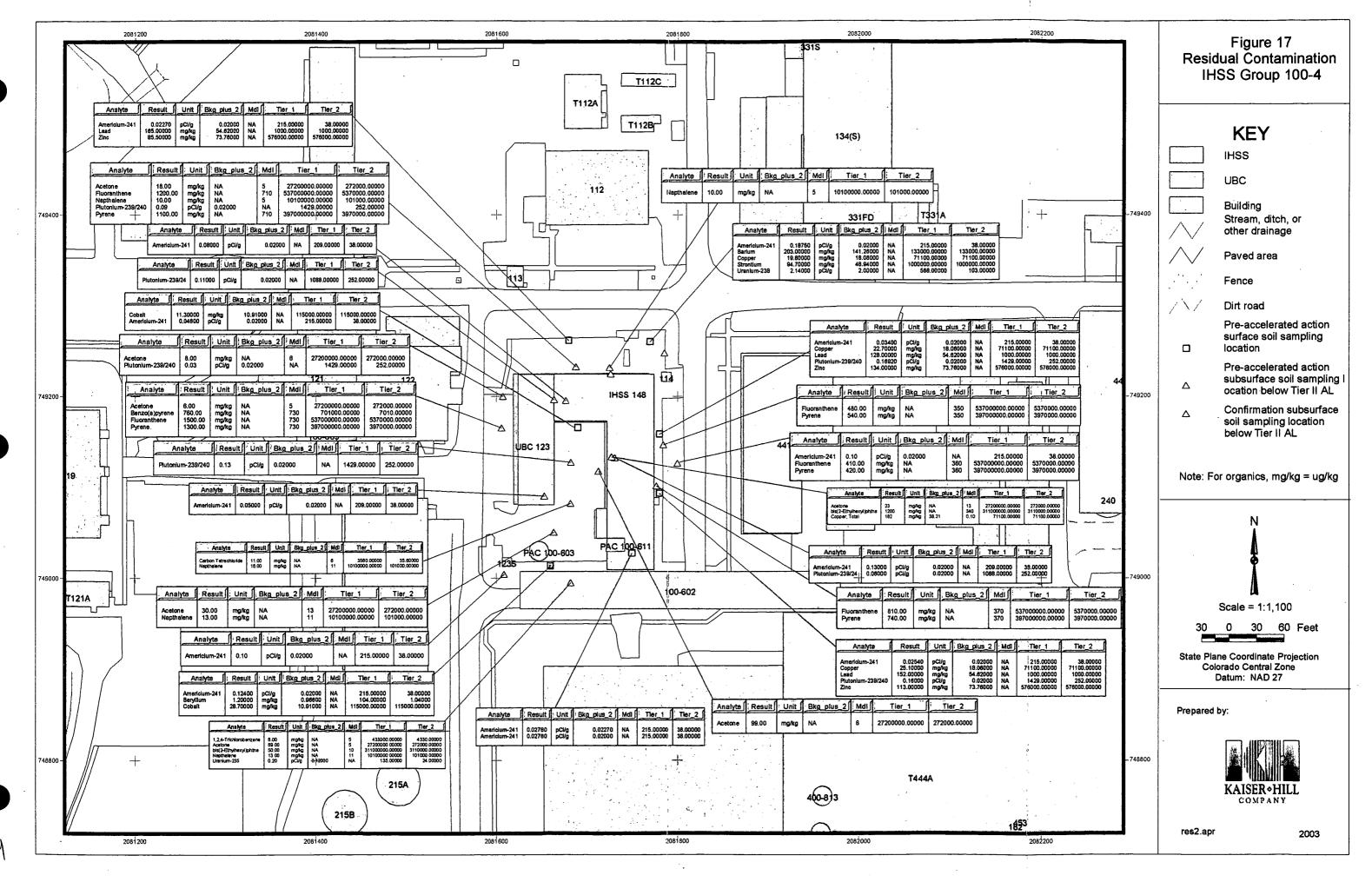
Figure 14 UBC 123 RCRA Unit 40

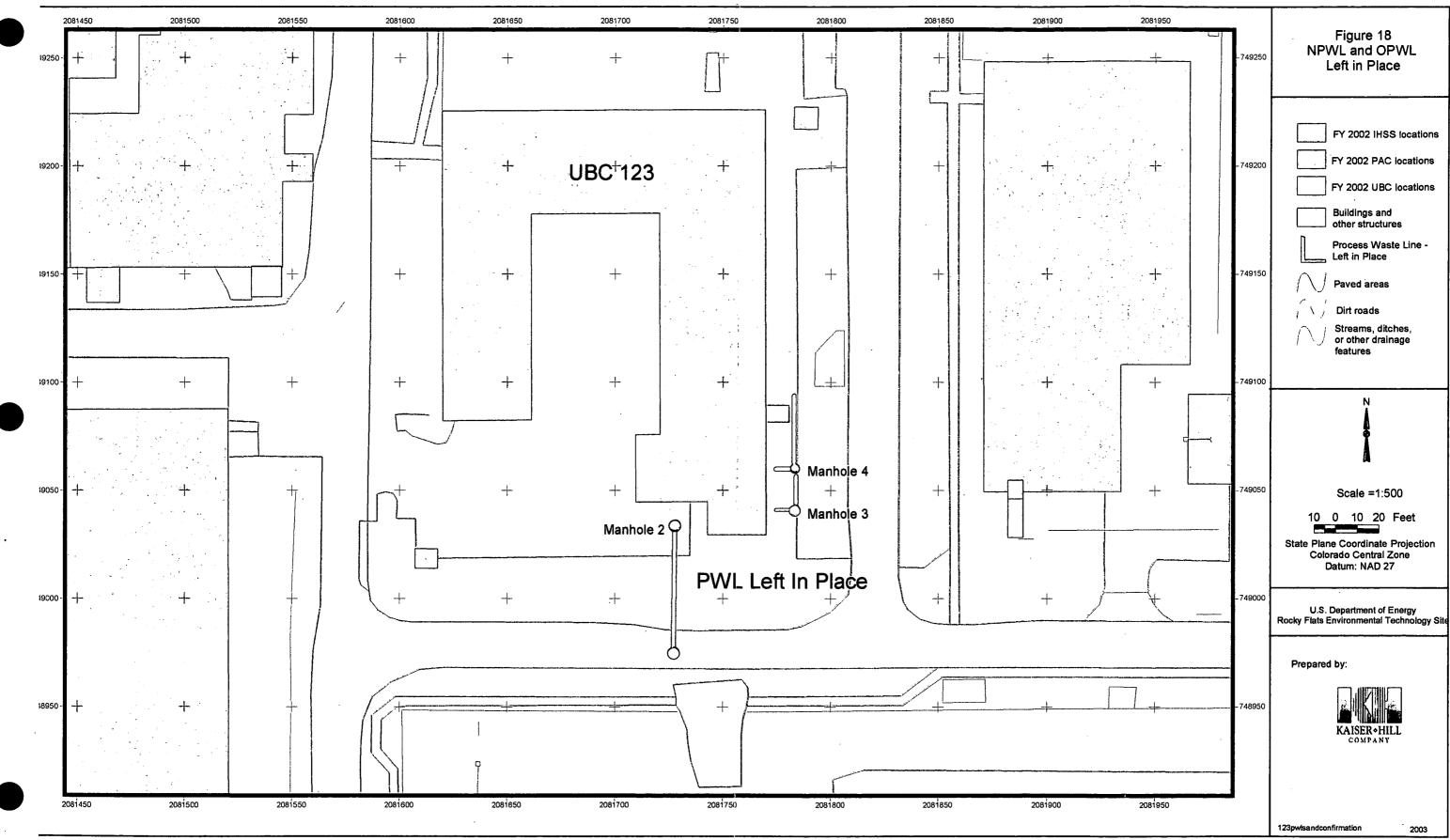


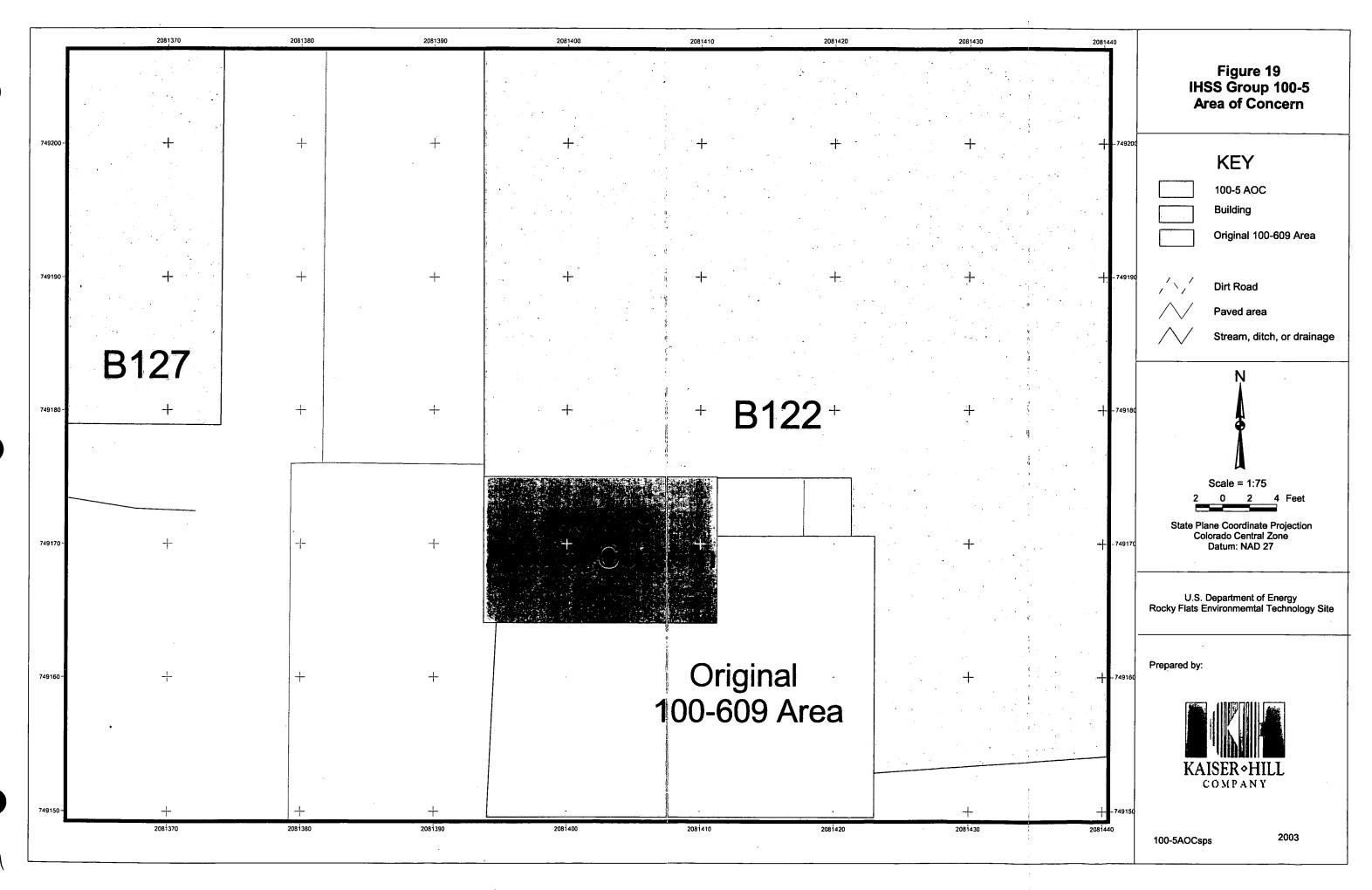












ba

